SystemBuilder Extensible Architecture

SB/XA Release Notes

Version 6.5.7

October 2022
SBX-657-ALL-RN-01

Chapter 1: SystemBuilder Extensible Architecture overview

These release notes provide information about enhancements and fixes made to SB/XA 6.5.

Supported operating systems

SB/XA supports the following operating systems:

- Microsoft Windows 10 and 11
- Microsoft Windows Server 2012
- Microsoft Windows Server 2016, 2019 and 2022

Rocket SB/XA, SBClient, and XUI Clients v6.5.5 and higher are certified for integration with MS Office 2019.

Chapter 2: SB/XA v6

The release notes in this section provide information about changes in SB/XA v6.

SB/XA v6.5.7 release notes

Build 7485
Release Date: October 2022.
These release notes provide information about fixes in SB/XA v6.5.7.

Fixes in SB/XA v6.5.7

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-17138	Previously, SB/XA Services Read and Write services failed to process fields with SB/XA Table Conversions, returning the error `The remote server returned an error: (500) Internal Server Error`. This has been fixed.	SBXA Services
SBXA-17785	Previously, in the Break section of a Report Writer report, a multivalued field defined with Max MV Lines = 0.M, to print all multivalues, presented only the first multivalue when Report Output was directed to HTML. All multivalues in multivalued fields are now presented in the Break section.	Reporting (ARD/RW/SMART.QUERY)
SBXA-18215	Previously, a conditional expression containing multiple concatenations of multivalued data evaluated with missing multivalue delimiters. This has been fixed.	Reporting (ARD/RW/SMART.QUERY)
SBXA-18216	SBClient SSL Property Lists may now be configured with SSL Version TLS v1.3.	SBClient, Security
SBXA-18218	In version 6.5.4 and above (in the GUI), a field defined as a password field through **/FD → F6 - Addit → F5 - GUI Attributes** by setting the password attribute to 1 did not hide password characters entered at run-time if the field was right justified. Characters entered in a right justified password field are now presented as asterisks.	Field Definitions, GUI Forms/Functions
SBXA-18222	Previously in character mode, using the mouse to click on function keys in the /F3.DATE selection process to navigate through the calendar worked for the first mouse click only. Multiple mouse clicks may now be used to navigate through the calendar.	Character Screens
SBXA-18250	Previously in GUI mode at the Login form, selecting the SBClient system tray icon, right-clicking and choosing **Full Screen** or selecting the session name disconnected the session. This has been fixed.	SBClient
SBXA-18252	Previously in GUI, unchecking a toggle with a null value did not move focus to the next object on the form. Null values for toggles are now processed correctly if the focus has been switched to the toggle beforehand.	GUI Forms/Functions

Issue number	Description	Components
SBXA-18324	Previously, an error `SB.GEN.DRIV.O Line 1295 Variable RESTRICT previously undefined.` was thrown when executing a matrix definition if the **/ USER.FLAG → Send ESC to server on X from Mainwin** was set to No. This has been fixed.	Process Definitions
SBXA-18339	In version 6.5.0 and above, the option to clear the local cache in **XUI Client → Options → Client Configuration** crashed the XUI Client when expected directories were not present in the cache directory structure. The option to clear the local cache will now succeed when expected directories are not present in the cache.	XUI Rich Client
SBXA-18349	In version 6.5.5 and above, the GUI Form Painter Color Palette, Properties, and Object Bar windows did not maintain the last saved position in an extended desktop. Closing and reopening the GUI Form Painter will now use the last saved position on both primary and secondary screens.	GUI Forms/ Functions
SBXA-18356	In version 6.5.5 and above, a loaded XUI button bar disappeared when changing theme and would subsequently not load using the /BBL process. Button bars are now initialized correctly when changing theme.	XAML Styles, XUI Rich Client
SBXA-18360	In version 6.5.4 and above, the SBClient SSL Property Lists could not be written to the correct registry location if it did not already exist. The registry location `Computer\ HKEY_LOCAL_MACHINE\ SOFTWARE\ WOW6432Node \ Rocket Software\ UniClient\ SPL` is now created during installation.	SBClient
SBXA-18364	In version 6.5.0 and above (in XUI), running a report to the XPS.PRINTER and choosing **File → Export to Word** failed with one of two errors, `Error: Call was rejected by callee` or `Error: Invalid method Activate.` This occurred with Word versions 365, 2019 and above. This has been fixed.	Printing / XPS / PDF / HTML
SBXA-18365	In version 6.5.4 and above (in XUI), executing OFF from /TCL crashed the XUI Client. The XUI Client now terminates the session gracefully.	XUI Rich Client
SBXA-18366	In version 6.5.4 and above, attempting to modify a user security record belonging to the same group as the user through the Security API presented a confusing message. The message now presents information which instructs the user to set `Allow users to amend user in same group` in the user's group security record.	Admin Tools
SBXA-18373	In version 6.5.0 and above (in XUI), when the cached OS user credentials changed the XUI Client the following error was presented: `ERROR [0] [Rocket U2][UCINET – UNIRPC][ErrorCode=81004] An argument was requested from the RPC that was of an invalid type. Check 'RpcServiceType' in connection string.` The XUI Client now notifies that the cached OS user credentials are incorrect and prompts for new credentials for the local OS user.	Communication Server, XUI Rich Client

Issue number	Description	Components
SBXA-18385	Previously in XUI, the Shell.Command prefix to control Windows behavior through TU.EXECUTE.SHELL did not work. Shell.Command prefixes are now processed through XUI.	XUI Rich Client
SBXA-18386	Previously in XUI, when using an `SBXAConfiguration.xml` file to choose a Communications Server, the wrong parameters to change OS password were passed to the UNIX OS password program location routine for CustomValidation authentication. This has been fixed.	SBXA
SBXA-18387	In version 6.5.3 and above, the UNIX OS password program location routine for CustomValidation authentication did not return the correct error message when a new password failed validation. This has been fixed.	SBXA
SBXA-18402	In version 6.4.0 and above, a screen would hang on the last line of input in a non-grid multivalued field when the G:U Accept process was removed from the F2 Function Key if the field is the last field in the screen, and the field has a Process After Field set. Focus now returns to the first input field as expected.	Process Definitions
SBXA-18404	In version 6.5.6, the /SERVICES.WHITELIST process contained a spelling error. The Use Communications Server Whitelist label is now spelled correctly.	SBXA Services
SBXA-18407	Previously, SBClient print to PDF or XPS failed if the **SBClient → File → Print Options… → Use Windows Print Drivers** option was not checked. If this option is not checked, SBClient now presents a message 'Use Windows Print Drivers is not selected'.	Printing / XPS / PDF / HTML, SBClient
SBXA-18412	Previously for stand-alone SBClient, during authorization when using a Company Name which contains a comma followed by some number of characters, SBClient failed to start. This has been fixed.	SBClient
SBXA-18414	In version 6.5.6, Guided Upgrade screens in GUI mode were corrupted and could only be run in Character mode. The GUI screens have been regenerated. The Guided Upgrade may now be run in Character or GUI modes.	GUI Forms/ Functions, Installation / Configuration
SBXA-18422	In XUI mode, fields in select process pre-run question forms now use the style from the field definition.	XAML Styles
SBXA-18423	Previously, saving and amending a global field definition did not copy all of the fields in the definition to the local field definitions. The complete amended definition is now copied from global to local definitions.	XAML Styles
SBXA-18429	In version 6.5.5 and above, when an invalid value failed a code table validation, any subsequent attempt to enter a valid value failed.	Intuitive Help
SBXA-18430	In version 6.5.6, generated code for paragraphs which performed arithmetic division contained integer rounding errors. This has been fixed.	Process Definitions
SBXA-18441	Previously in GUI, an sbmvclass grid_font attribute defined for a custom screen **/GDS → GUI Default Set** was not applied to grids in a screen definition. This has been fixed.	GUI Forms/ Functions, Multivalue Grids

Issue number	Description	Components
SBXA-18444	Previously, when a derived field with an expression which contains an OCONV was defined as a cross reference field, the following runtime error was presented when a record was saved: SB.UPDATE.BTREE line 157 - variable AMC undefined.	Field Definitions
SBXA-18464	Previously in GUI mode, when the main SB+ window was moved to a secondary screen, SB+ error messages did not follow and were presented on the primary screen. SB+ error messages are now presented on the screen which contains the main SB+ window.	SBClient
SBXA-18467	Previously on Unidata, /QRD and Smart Query output through the TUBP routines (for example to Excel), did not support the ECLTYPE "U" FLD = FLD2 syntax which is supported when output is sent to Screen, Terminal, or Printer. The FLD = FLD2 syntax is now supported for all /QRD and Smart Query output options.	Reporting (ARD/RW/SMART.QUERY)
SBXA-18469	Previously in GUI, SBClient FTP file transfers with the SFTP option checked for secure file transfer failed with error `TRANSFER FAILED!` This has been fixed.	Communications / File Transfer, SBClient
SBXA-18491	Previously, SBClient SSL connections crashed intermittently but frequently with an error: `Property list decryption error. Password may be invalid.` The required SSL libraries are now loaded at SBClient startup.	SBClient
SBXA-18495	In version 6.5.6, SBClient registry keys storing paths to Excel, Adobe, etc. could not be written for a regular user. The required registry keys are now created during the SBClient installation.	SBClient
SBXA-18499	Previously, when creating a new report definition in /RD with the F7-Convert Query option to convert a QRD report into an RD report, the QRD output destination E - Excel was transferred to the RD report. E - Excel is not a valid RD option. The RD report is now created with the A output destination if the QRD report has the E - Excel option.	Reporting (ARD/RW/SMART.QUERY)
SBXA-18502	Previously in XUI, when an AutoComplete Field used a selection process on another file, @RECORD was corrupted bringing in values from the other file rather than the open record on the screen. @RECORD is now reinstated after selection.	XAML Styles
SBXA-18503	Previously in XUI, when moving through fields on a screen the default behavior was to highlight the content so when the user start typing, it was overwritten. Fields with the AutoComplete XAML style did not highlight the current value of the field. When focus is given to an AutoComplete field, the current value is now highlighted.	XAML Styles
SBXA-18504	Previously, when a large program (larger than 100kb / 2500 lines) was included in a revision, an error message `MEDIA / FILE error` was presented when running /REV.REPORT. Large program files may now be included in a revision.	Issue Replication System

Issue number	Description	Components
SBXA-18507	In /ASD Assembly Definitions, expressions and Windows environment variables may now be used to locate assembly files.	XUI Rich Client
SBXA-18508	Previously, selecting the SBClient system tray icon, right-clicking and choosing **Full Screen** for a connected session corrupted the display. In character mode the window is now sized appropriately and in GUI mode the Full Screen option has been disabled.	SBClient
SBXA-18515	In version 6.5.4 and above, when @RTN.FLAG was set to 1 in the Process Before Screen in GUI mode, unassigned variable messages were output to the terminal window. These variables are now initialized.	GUI Forms/ Functions
SBXA-18546	Previously in XUI, a field defined as a password field through **/FD → F6 - Addit → F5 - GUI Attributes** by setting the password attribute to 1 did not hide password characters entered at run-time. Characters entered in a password field are now hidden and presented as asterisks.	Field Definitions, XUI Rich Client

Issue number	Description	Components
SBXA-18567	In XUI, system and user variables may now be set in the SBXAConfiguration.xml file. For example, ... <EnvironmentSettings> <SystemVariables> <Properties> <Property> <Name>SystemPath</Name> <Value>C:\Temp\System</Value> </Property> </Properties> </SystemVariables> <UserVariables> <Properties> <Property> <Name>UserPath</Name> <Value>C:\Temp\User</Value> </Property> </Properties> </UserVariables> </EnvironmentSettings> </Configuration> </ConfigurationCollection> </SBXAConfiguration> The variables may be set in multiple configurations within the `SBXAConfiguration.xml` file. These variables may be used with a $ prefix to locate image files in /BBD Button Bar Definitions and can be interrogated using TU.CLIENT.GETENV.	XUI Rich Client
SBXA-18654	Previously in GUI, clicking multiple toggles in quick succession rendered toggles unresponsive. This has been fixed.	Form Controls (Radio/Combo/ Text/Label/Toggle/ Memo), SBClient
SBXA-18666	Previously, Report Writer report fields were truncated to 240 characters when output to DIFF. This limit has been removed.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-18716	In version 6.5.6, file transfer processes presented an inaccurate error `AT USER REQUEST` when using SBClient version 5.x. The error `CLIENT/SERVER MISMATCH` is now presented.	Proces Definitions

Issue number	Description	Components
SBXA-18723	In version 6.5.6, SBClient looked for installed application paths in the wrong registry location and was not able to launch (for example, Word or Excel). SBClient now looks for the application path in: `Computer\ HKEY_LOCAL_MACHINE\ SOFTWARE\ Microsoft\ Windows\ CurrentVersion\ App Paths`. If SBClient does not find the application path, it will prompt the user and write the path to the following location for future use: `Computer\ HKEY_LOCAL_MACHINE\ SOFTWARE\ WOW6432Node\ Rocket Software\ SBC6\ SBClient\ App Paths`.	External Application Integration
SBXA-18750	In version 6.5.4 and above, the Security API SH.SEC.API failed to locate the system ID when using options to update group security restrictions. This has been fixed.	Admin Tools
SBXA-18773	Previously, the SB/XA internal browser launched with default ANSI encoding and did not display accented characters. The encoding may now be changed to UTF-8 (for example) which is then set for subsequent launches.	XUI Browser Client, XUI Rich Client
SBXA-18777	Previously in XUI, when style was applied to the controlling field and a grid contained multiple pages of data, using the mouse to drag the scrollbar down through the pages of data corrupted the controlling field focus position. Focus of the correct controlling field is now maintained.	Multivalue Grids, XUI Rich Client
SBXA-18794	Previously, SBClient SMART.QUERY failed with error `Cannot Start RPC Server` when clicking on ellipses to invoke selections. This occurred when using FTP file transfer with the SFTP option checked for secure file transfer. This has been fixed.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-18799	Previously in GUI, an error `Value too big` was presented on F3 lookup when using a custom Display Scaling option in Windows Display settings. This has been fixed.	GUI Forms/ Functions, SBClient
SBXA-18824	Previously, SBClient passwords for script substitutions were encrypted using a proprietary algorithm. The password entered in **SBClient → Setup → Script → Predefined Script Replacement Strings** is now encrypted using AES256.	SBClient, Security
SBXA-18857	Previously, when the Security API was used to remove multiple users, an active select list corrupted processing - sometimes removing the wrong users. An active select list is now saved before Security API processing, and then restored.	Security
SBXA-18874	Previously in XUI, with an SBXAConfiguration.xml file in place, the option to Save Credentials did not work. Credentials are now saved in the Windows Credential Manager.	Communication Server
SBXA-18879	In version 6.5.0 and above on UniVerse, an attempt to edit a program failed with a WRITE error when then program was in DEBUG in another session. The program was not able to be edited until the DEBUG session had exited all the way out of the SB environment. A program may now be edited when the program is in DEBUG in another session.	Process Definitions

Issue number	Description	Components
SBXA-19599	Previously, Windows and WindowsUserNamePassword authentication types used the TLSv1.0 cipher suite, and the Browser Client would not connect when TLSv1.0 was disabled on the Communications Server. TLSv1.1 and TLSv1.2 have been added. **Note:** Certificates for the SBXA Communication Server/ Client need to be built with the additional parameter -a SHA512.	Communication Server, Security, XUI Browser Client
SBXA-19604	Previously in XUI, printer initialization for a session was not performed when Navigation Method = 'M' on UniVerse platforms.	Installation / Configuration, Printing / XPS / PDF / HTML, XUI Rich Client
SBXA-19640	Previously in XUI, when using WindowsUserNamePassword and SBXAUserNamePassword authentication types and the option to Save Credentials, the XUI Client crashed when the user's password changed and did not match the password stored in the Windows Credentials Manager. The XUI Client now prompts for the user's new password and updates the Windows Credentials Manager.	XUI Rich Client
SBXA-19642	Previously in XUI, multiple down arrow events in quick succession on the controlling field of a grid crashed the XUI Client. This has been fixed.	XUI Rich Client
SBXA-19645	In version 6.5.4 and above (in XUI), clicking a hyperlink in a grid cell to call an SB+ process crashed the XUI Client. This has been fixed.	XUI Rich Client
SBXA-19663	SB/XA can now use SSH credentials for authentication when autologin is enabled. SB/XA keyboard timeout and all password protection within SB/XA will require re-authentication of SSH credentials. An SB/XA SSH connection may also be configured to expire. Prerequisites: ▪ SB/XA autologin is enabled ▪ SBClient and SB/XA Application Server must be version 6.5.7 or later ▪ SSH communication protocol is used System Configuration: ▪ Set DMCONT SB.CONTROL<62, 1> to 1 to use SSH credentials for authentication when autologin is enabled. ▪ Set DMCONT SB.CONTROL<62, 2> to the number of hours before a session expires. The user will be prompted to save their work 5 minutes before the session expires.	External Application Integration, Security
SBXA-19730	In version 6.5.4 and above(in XUI), when a user opened multiple XUI sessions and then closed the first session opened, any subsequent attempts to open a new session crashed the XUI client. This has been fixed.	XUI Rich Client

Issue number	Description	Components
SBXA-19733	In version 6.5.0 and above, SBCOM applications failed to launch from any location with an error: `'c:\path\to \application' is not a valid account`. This has been fixed.	SBClient
SBXA-19734	In version 6.5.6, when calling TU.LAUNCH.APP, SBClient looked at the wrong registry location to find the path to the application and required Administrator permissions to update the registry. SBClient will now look for the application App Path in: `Computer\ HKEY_LOCAL_MACHINE\ SOFTWARE\ Microsoft\ Windows\ CurrentVersion\ App Paths`. If SBClient does not find the application App Path, it will prompt the user for the App Path and write it to the following location for future use: `Computer\ HKEY_LOCAL_MACHINE\ SOFTWARE\ WOW6432Node \ Rocket Software\ SBC6\ SBClient\ App Paths`.	SBClient
SBXA-19777	The SBClient OpenSSL version has been upgraded to 1.1.1n to address the CVE-2022-0778 vulnerability.	Security

SB/XA v6.5.6 release notes

Build 7243
Release Date: May 2020
These release notes provide information about fixes in SB/XA v6.5.6.

Fixes in SB/XA v6.5.6

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-18262	In version 6.5.4 and above in XUI, a user in an input screen with the O option was unable to gain focus on a field in a grid using a mouse click. This issue has been resolved.	Multivalue Grids, XUI Rich Client
SBXA-18290	In previous versions in XUI, a user in an input screen with the **O** option that contained a key field and only grid fields with CAIDE options, the screen would hang when the user pressed either enter or the down arrow on the last grid row. This issue has been resolved.	Multivalue Grids, XUI Rich Client
SBXA-18292	In version 6.5.5, @RECORD was corrupted on return from an output subscreen which was called from an input screen. This issue has been resolved.	Character Screens, GUI, XUI Rich Client
SBXA-18293	In version 6.5.5, input screen drivers were corrupted when Use Grids For Multivalue Fields was set to **No**. In this case, the driver corruption breaks the mandatory field checking when saving the screen. This issue has been resolved.	Character Screens, GUI, XUI Rich Client
SBXA-18310	In version 6.5.1 and above, sorting a grid in an input screen with the **O** option crashed the XUI Client. This issue has been resolved.	Multivalue Grids, XUI Rich Client

SB/XA v6.5.5 release notes

Build 7113
Release Date: December 2019
These release notes provide information about enhancements and fixes in SB/XA v6.5.5.

Enhancements and fixes in SB/XA v6.5.5

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-6832	In v6.5.5, two new options have been added to SB/XA Client Configuration. These options allow users to set a keepalive mechanism between the Client and the Communications Server that does not disable the TIMEOUT feature in SB/XA on the server. These options can be set manually or via XUI. ▪ The `Enable Ping Communication Server` option (`enablePingCommServer` in SBXAConfiguration.xml) enables the ping. The default value is False. ▪ The `Ping Communication Server Timeout` option (`pingCommServerTimeout` in SBXAConfiguration.xml) defines a period (in seconds) to issue the ping. The default value is 300 seconds (5 minutes).	Communication Server
SBXA-10616	Previously in XUI Clients, the left part of the screen containing menus was cleared when the `Clear Parameters` option from the context menu was selected in EMO mode. This was due to the cleared cache. This issue has been resolved with a message notifying the user to log off and log in again when the cache is cleared.	XUI Rich Client
SBXA-12278	Previously, translated labels and button strings were not presented in XUI. This issue has been resolved.	Internationalization (NLS/Multi Language)
SBXA-12564	Previously, a derived field that referred to an attribute position greater than 999 was being truncated in the UniVerse field definition to only the first three digits. This issue has been resolved to allow processing of up to 9999 attribute positions.	Field Definitions
SBXA-14087	Previously, when the /SD tool was called from the browser Client, the session failed and an error message opened. This issue has been addressed with the addition of the following Warning message: `Screen designer is not available in browser` The windows shown after the message need to be closed manually.	XUI Browser Client

Issue number	Description	Components
SBXA-14588	Previously, after selecting a combo box in a grid, two or more clicks were required to get focus on another field in the grid. This issue has been resolved.	XUI Rich Client
SBXA-14926	Previously in XUI Clients, grids in screens with the O option and grids with CIADE restrictions on the controlling field lost focus when using Page Up and Page Down. This issue has been resolved.	XUI Rich Client
SBXA-15455	Previously, the screen failed when the user was in a multi-valued fieldset, used the up arrow to go back over a skipped dependent field, and then selected F2 to save the screen. This issue has been resolved.	Installation / Configuration
SBXA-15520	Previously, when debugging a program with the RAID debugger, the XUI Client would exit with an error message if the user pressed Q to quit the debug session. This issue has been resolved and the session now returns to the TCL prompt when the user quits the debug session.	XUI Rich Client
SBXA-15588	Previously, a derived multivalue field defined with a GUI Object Type of Memo was displayed as a grid, not as a Memo. This issue has been resolved.	Form Controls (Radio/Combo/Text/Label/Toggle/Memo)
SBXA-15592	Previously in the XUI Client, the F1 help for an INPUT statement called in a paragraph was not displayed when the user hovered on the field or used the F1 function key. This issue has been resolved.	XUI Rich Client
SBXA-15630	Starting in v6.1.3, when a sub-screen was created and the options SH were applied in the PD.O process, @RECORD was lost when being returned back to the calling screen. This issue has been resolved.	Process Definitions
SBXA-15963	Previously, using the degree (°) symbol corrupted the display on output screens in both GUI and XUI grids. This issue has been resolved.	Multivalue Grids
SBXA-16333	Previously, a check box could be changed when a prior mandatory field did not contain a value. Saving the screen failed the mandatory field validation and corrupted the check box value. This issue has been resolved. If a check box is selected before a prior mandatory field contains a value, then a mandatory field validation message is presented and focus goes back to the mandatory field.	Form Controls (Radio/Combo/Text/Label/Toggle/Memo)
SBXA-16356	Previously, if the user crashed on one application server, and then logged in to a different server, the information about the crash was written to DMCONT XUI.CLIENT.CRASH on the wrong server. This issue has been resolved.	XUI Rich Client
SBXA-16382	Previously, when using a tabbed input screen with the O option, data in a **Memo** field was cleared from the record and screen when moving to another tabbed screen. This issue has been resolved.	Form Controls (Radio/Combo/Text/Label/Toggle/Memo)

Issue number	Description	Components
SBXA-16795	Previously, when a **Grid Footer** field was defined for a grid and the screen was refreshed with `@REFRESH = -2`, no data values in the grid were shown except for the current focus grid cell. This issue has been resolved.	GUI Forms/ Functions, XUI Rich Client

SBXA-16902	Previously, the BASIC code generated from a paragraph process for some arithmetic expressions included an appended "0", which yielded incorrect results. This issue has been resolved.
	
	Example paragraph line:
	``
	IF (100-75)/100 THEN
	``
	Generated BASIC source code:
	``
	IF (((100 - 75) / 100)"0") THEN
	``
		Process Definitions

SBXA-16983	In v6.5.5, the hashing algorithms in the SB/XA communication server have been updated to be FIPS compliant. The XUI .NET Clients were updated to be FIPS compliant in v6.5.0.	Communication Server
SBXA-17013	Previously, the only way to add a tool tip to a XUI grid was to set the Help Reminder in the field definition. This issue has been resolved and `ERR = SETATTR("FieldName","help_string","Help Text")` can be used to set a tool tip on a controlling or dependent grid field.	Multivalue Grids
SBXA-17209	Previously, processes that were copied from processes that are callable by SB/XA Services were not updated to the `XXCONTROL WHITELIST` file. This issue has been resolved.	SBXA Services
SBXA-17273	Performance of the subroutine `SB.EVAL.EXP` that evaluates SB expressions at runtime has been improved. This will only have an impact for applications that have large SB paragraph processes.	Performance
SBXA-17413	Previously, the RELEASE.LICENSES process did not release invalid licenses when run through SB.REMOTE.PROCESS. This was due to the default dialog option being to run in report-only mode. In v6.5.5, the default dialog option releases licenses when the RELEASE.LICENSES process is run through SB.REMOTE.PROCESS.	Process Definitions
SBXA-17492	Previously, the **/TERM → Terminal Line Width In Horizontal Print Positions** parameter was not updated with the correct terminal line width when running a Report Writer report in condensed mode. This issue has been resolved.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-17531	Previously in the XUI Clients, the Tooltip for a Toolbar button could not be set dynamically at runtime. This issue has been resolved.	XUI Rich Client

Issue number	Description	Components
SBXA-17541	In v6.5.5, XUI Client logging includes functions of the Object Manager and Form Cache that are all logged on enter and exit. **Note:** This significantly increases the size of the XUI Client log file. You can enable Object Manager and Form Cache logging by setting the **SB/XA Client Configuration** → **Log Warnings** property to True.	XUI Rich Client
SBXA-17543	Previously, with LONGAMES OFF for a UniVerse account, the /MP F6 option to access source code for a BASIC subroutine did not locate the code and open it in the SE editor. This issue has been resolved.	Process Definitions
SBXA-17575	Prior to v6.5.5, an interleaved set of multivalue fields would display as a card view when run in the XUI .NET Clients. In v6.5.5, a new flag has been added to force the use of a grid in the XUI .Net Clients. You can locate the new flag **X - Use Grid in XUI client** as follows: 1. Press F3 on the **Control/Dep/Read** prompt of the controlling multivalue field. 2. Go to the **Restrictions** field. 3. Press F3 again for a list of options.	Multivalue Grids
SBXA-17580	Previously, the F3 lookup on /PD.P in new accounts displayed some internal SB processes. This issue has been resolved.	Process Definitions
SBXA-17595	Previously, changes could not be made when working in XUI full screen editor, then calling a process, then returning to the full screen editor. This issue has been resolved.	SE Screen Editor
SBXA-17600	Previously, the following **User Security Setup** → **GUI Flags** options for the EMO Navigation Method could not be changed: ▪ `Remove Tool Branch` ▪ `Remove Help Branch` ▪ `Remove Help Branch` ▪ `Remove Readme Branch` ▪ `Multiple Sysids` This issue has been resolved.	XUI Rich Client
SBXA-17604	In v6.5.3, the SBXA Service paragraph process failed to recognize SB+ field names as parameters for input and output. This issue has been resolved.	SBXA Services
SBXA-17628	In all previous v6.x.x releases, DISP 4 behaved the same as DISP 7 if a temporary remote process record ($RP.portno) existed in DMSECURITY and the message contained more than one space. This issue has been resolved.	GUI Forms/ Functions

Issue number	Description	Components
SBXA-17638	Previously, SBSYSMENU could not be translated with either the /TRANSLATE or /OL processes. SBSYSMENU can now be translated with the System Menu option of the /TRANSLATE process.	Installation / Configuration, Internationalization (NLS/Multi Language)
SBXA-17643	Previously, Device Licensing did not work for SB/XA Terminal Definitions with PCTERM=2. This issue has been resolved.	Installation / Configuration
SBXA-17644	Previously, when using the Service Request Builder and loading a saved session, the sessionId was not set for the current session. This issue has been resolved.	SBXA Services
SBXA-17671	In v6.5.4, the **/HK.CONTROL** → **XUI** → **Only exit grid with Tab or mouse click** option was ignored. This issue has been resolved.	Multivalue Grids
SBXA-17677	In v6.5.4, the `Only exit grid with Tab or mouse click` option was missing from the **User Security Setup** → **XUI Flags** screen. This issue has been resolved.	Admin Tools
SBXA-17679	In v6.5.5, the following statistical functions are available to use in multi-value selection processes and output grids: ▪ Average ▪ Count ▪ Maximum ▪ Minimum ▪ Sum The XAML code for these statistical and aggregate functions is generated dynamically. An example of this XAML code, called `SBXStatFunctionsExample.xaml`, is now included in the **Extra XAML themes** `SBXceed` folder of the SB/XA installation media. Developers can use this example code as a guide when creating their own themes and styles.	XMAL Styles
SBXA-17682	UniData Only: Previously, XUI Client updated `DMCONT SB.ACCOUNTS<2,x>` with 0 instead of the SB User ID resulting in an incorrect license count. This issue has been resolved.	XUI Rich Client
SBXA-17686	Previously, if a user's grid theme was based on the TableView class from Xceed code, statistical functions in that theme could cause a crash. This issue has been resolved so that SB/XA supports grids based on both Xceed and SB/XA classes.	XAML Styles
SBXA-17691	In v6.5.4, the **Color Palette**, **Properties** box, and **Object Bar** were reset to the default position and did not maintain the last saved position when the GUI Screen Designer was closed and re-opened. This issue has been resolved.	GUI Forms/ Functions

Issue number	Description	Components
SBXA-17712	Previously, in a GUI mode, the scroll bar for a non-grid multivalue table was placed after the wrong column when the **Process After Field** for one of the dependant fields was invalid. This issue has been resolved.	GUI Forms/ Functions
SBXA-17714	Starting with v6.4.0, a message was returned indicating that the action was unsuccessful (`RTN.FLAG = 650`) when using the security API to create a group, even though the group was created successfully. This issue has been resolved.	Admin Tools
SBXA-17715	Previously in XUI Clients, the field **Justification** setting was ignored for derived fields in grids. This issue has been resolved.	Field Definitions, GUI Forms/ Functions, Multivalue Grids
SBXA-17716	Previously, if a screen (or a set of linked screens) contained more than 21 mandatory fields, then the list of mandatory field steps at the foot of the screen driver record could be corrupted. This issue has been resolved.	Character Screens, GUI Forms/ Functions
SBXA-17732	Previously, a screen driver corruption occurred when the `Use Grids for Multivalued Fields` option in / SB.PARMS or /HK.CONTROL was set to `N` and the screen contained more than one controlling field with dependent fields. This issue has been resolved.	Multivalue Grids
SBXA-17737	Starting in v6.5.5, the SB Security API SH.SEC.API has a new parameter option 27 to create a new user security record without encrypting the password. This can be used when reading user security records that contain an encrypted password, and then writing them to a new SB instance. For more information, see https://my.rocketsoftware.com/ RocketCommunity/articles/How_To/Understanding-The-SB-Security-API	Admin Tools
SBXA-17787	Previously, when the **Keyboard Timeout Limit** was reached and the user entered a username and password to switch to a new user, the switch failed and the user was disconnected. This issue has been resolved.	Admin Tools
SBXA-17794	Previously, an incorrect call of the subroutine `UT.LOG.MESSAGE` in `SB.SROC.MAIN` caused the XUI Client to fail. This issue has been resolved.	XUI Rich Client
SBXA-17808	The SB/XA Communications Server has been enhanced to use a distinguished name when multiple certificates with the same Common Name (CN) exist in the certificate store. To use a certificate with a distinguished name, set the **SB/XA Communications Server Configuration** → **User Certificate Name** property. For example: For a certificate with a CN of xxxx.yyyy.com and an Organizational Unit Name (OU) of zzzz, set the User Certificate Name to: `CN=xxxx.yyyy.com, OU=zzzz` **Note:** A space is required after the comma.	Communication Server
SBXA-17810	Previously, toolbars were not presented when the theme was changed and the XUI Client was restarted. This issue has been resolved.	XUI Rich Client

Issue number	Description	Components
SBXA-17813	Previously, when performing a /PD.LI process to Data Transfer DOS to SB+, an `AT USER REQUEST` error was reported and the process failed if the SBClient version was older than the SBXA server release. This issue has been resolved.	Communications / File Transfer
SBXA-17825	Previously, the SETPTR logging function corrupted the common variable CONTROL and only implemented SETPTR logging when it was set in the first system id. This issue has been resolved by adding the Turn on SETPTR Logging option in /SB.PARMS.	Printing / XPS / PDF / HTML
SBXA-17828	Previously, adjusting the **/USER.FLAGS → International/ American Date** setting had no impact on the date format. This issue has been resolved.	Admin Tools
SBXA-18159	In v6.5.4, /BBD did not save new toolbars or modifications to existing toolbars. This issue has been resolved and a hotfix provided for v6.5.4.	Menus
SBXA-18161	The XUI Rich Client has been enhanced to include a new HTML editor. The HTML Editor is shipped as a custom control, which can be found in the `Extra \RichHtmlEditor` folder of the installation media. Instructions to implement the custom control are located in the `HTMLEditorControlCreation.pdf` document.	XUI Rich Client
SBXA-18191	Previously, **Memo** fields did not display data when multi-language was enabled and CAIDE options were used in GUI and XUI. This issue has been resolved so that the field is presented as a normal multivalue field as validations such as "AIDE" cannot be implemented in a **Memo** field.	Form Controls (Radio/Combo/ Text/Label/Toggle/ Memo)
SBXA-18192	Previously, a `[202] Cannot Read Host Item` error occurred when attempting to transfer to Excel. This issue has been resolved.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-18199	UniData Only: Previously, data could not be passed to a paragraph through the common variable @USERDATA when called as an SB/XA Service. This issue has been resolved.	SBXA Services

Issue number	Description	Components

SBXA-18213	The Guided Upgrade process is a set of screens and routines to guide the user through the steps of upgrading from SB+ v5 to SB+ or SB/XA v6.
	
	In v6.5.5, the following enhancements have been added to the Guided Upgrade process:
	
	▪ All SELECT statements in the guided upgrade have been modified to include the USING clause (USING DICT DMCONT) to ensure all required fields are present.
	
	▪ VOC SBSYSMENU<22> (Logon/Logto Subroutine) is a potential roadblock to a successful upgrade that was not processed in previous versions.
	
	▪ xxxxx.LOG processes are a potential roadblock to a successful upgrade. These have been removed from the beginning of the guided upgrade and re-instated at the end.
	
	▪ The Remote Log screen accessed via F10 on the REGEN.EXP tab has been enhanced to provide additional information as you navigate the list of files:
	
	  ▫ A comma-separated list of system IDs is displayed where the file exists in the FILES record.
	
	  ▫ The VOC pointer for each file is displayed.
	
	  ▫ The Absolute path to the DICT file is displayed.
	
	  (This might be different from VOC<3>.)
	
	▪ The Missing Files screen accessed via F5 on the REGEN.EXP tab has been enhanced:
	
	  ▫ The VOC pointer for each file is displayed.
	
	  ▫ The Absolute path to the DICT file is displayed.
	
	  (This might be different from VOC<3>.)
	
	▪ The process that builds the Missing Files list has been changed to use the absolute path of the DICT file to determine if the file is already included in the FILES records, therefore removing duplicate pointers from the list.
		Installation / Configuration

Issue number	Description	Components

SBXA-18219	In v6.5.4, the SCOPE.UPGRADE program was added to SAPROGS to provide customers with information about their applications prior to upgrading SB+ and SB/XA.
	
	In v6.5.5 the following enhancements were made to the SCOPE.UPGRADE program:
	
	• The program now copies the FILES record from xxCONTROL for each system id to the DIR folder SCOPE_OUT with the Id `@SYSID:"_FILES"`.
	
	• One of the most important aspects of upgrading an SB+ or SB/XA application is ensuring that the FILES records contained in xxCONTROL for each system id are current. The section `Files-Screens-Reports-Fields` contains information about all files that contain an SB screen, report, or field. The following data columns were added to this section of the output file `SCOPE_':AcctName:'.csv` in the DIR folder SCOPE_OUT:
	
	  □ Absolute path to the DICT file
	
	  □ File pointer type (F,DIR,Q)
	
	  □ Remote Path Indicator (does the DICT file reside in a different location)
	
	  □ Duplicate Path Indicator (is the path to the DICT a duplicate of another file pointer in the VOC)
	
	  □ Exists in Files (does the file DICT path exist in the xxCONTROL FILES record)
	
	  □ FILES Duplicates (is the file DICT path a duplicate of a file identified in the previous column)
	
	  By opening the `SCOPE_':AcctName:'.csv` file in a spreadsheet and applying filters to these columns, it is easier to identify what file names need to be added to the FILES records.
		Installation / Configuration

SB/XA v6.5.4 release notes

Build 6885
Release Date: October 2018
These release notes provide information about enhancements and fixes in SB/XA v6.5.4.

Enhancements and fixes in SB/XA v6.5.4

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-4248	In v6.5.4, the validation process for available themes in the system control record has been amended to prevent the entry of duplicate theme names.	XUI Rich Client

Issue number	Description	Components
SBXA-10625	Prior to this release, SBClient GUI would fail if users changed the navigation method from **EM** to **ENO** and attempted to log into SB+. This issue has been resolved.	Admin Tools
SBXA-12148	Previously, changes to background grid colors, set via the SETATTR command, were removed from XUI grids when data stacking the value **@21**. This issue has been resolved.	Mulitvalue Grids
SBXA-13201	Previously, the TU.CHECK.DIRECTORY subroutine returned a different value in the XUI client than SBClient when only passing a value for root directories (`C:`) that used a forward slash (**/**) or backslash (****) delimiter and did not include a sub-directory. This issue has been resolved in v6.5.4.	Communications / File Transfer
SBXA-13562	Previously, the **Theme Name** in the theme definition had to be the same as the **Class or Item Name** value. Starting with v6.5.2, this is no longer the case.	XUI Rich Client
SBXA-14035	Previously, multivalue numeric fields in XUI grids ignored the justification field parameter value, which prevented users from changing the justification. This issue has been resolved.	Multivalue Grids, XUI Form Designer
SBXA-14095	In v6.5.4, LENDP was added to the list of available paragraph functions for non-NLS instances. In a non-NLS environment, this function will behave the same way as the LEN function.	Internationalization (NLS / Multi Language)
SBXA-14215	The security API allows two user IDs to be associated with the same Windows ID, preventing both users from logging into the system. In v6.5.4, a unique single sign-on ID validation was added to the security API to ensure multiple users cannot be created with the same Windows identity.	Admin Tools
SBXA-14551	From v6.3.0, in the XUI client, the **UNIX OS password program location** field on the **Security** tab of the SB Control Parameters screen would not accept input and would not display any data added in the character version of the screen. This issue has been resolved in v6.5.4.	Installation / Configuration, XUI Rich Client
SBXA-15537	Users can now opt to save and compile records without exiting XUI. In v6.5.4, a new field called **Save and Compile record without exiting** was added to the **XUI Parms** tab of the SB Control Parameters window that provides this functionality.	SE Screen Editor
SBXA-15665	Previously, when using navigation mode **EN**, if users expanded the (SBX) Explorer menu structure prior to pressing F3 in the **Group ID Code** field on the Group Security Setup window, the screen did not refresh correctly. This issue has been resolved in v6.5.4.	Admin Tools
SBXA-15767	Previously, the User Security Setup screen did not correctly display tabs in GUI mode if the **Use Tabfolders in GUI Screens** option was not selected. This option is available on the **GUI Flags** tab of the System Control Record and on the **GUI Flags** tab of the SB Control Record. This issue was resolved in v6.5.4 and tabs now correctly display on the screen regardless of whether the option is selected.	GUI Forms / Functions, SBClient
SBXA-15783	In v6.5.4, the CREATE.ACCOUNT utility is available to SB/XA UniData users on Linux.	Admin Tools

Issue number	Description	Components
SBXA-15887	Prior to this release, the CLEAN.SBHSTATE process deleted everything in the `SBS` folder, which included information such as form definitions and cache files. Now, when this process is run in v6.5.4, the Enter Parameters window displays where users can press F3 and select the information they want to delete from a list of options.	XUI Rich Client
SBXA-16045	Prior to this release, the TU.UPLOAD function did not work as expected in XUI mode when the host record ID was null. This issue has been resolved in v6.5.4.	XUI Rich Client
SBXA-16190	Prior to this release, users could only add one application at a time to the list of valid applications on the **Single Sign-On** tab of the User Security Setup window. In v6.5.4, multiple applications can be selected from the intuitive help window.	Admin Tools
SBXA-16238	Starting with v6.4.0, if Linux users entered the correct user ID but an incorrect password when attempting to connect via the XUI Rich Client using **SBXAUserNamePassword** authentication, the application would hang during a subsequent attempt. This issue has been resolved.	Communication Server, Installation, Configuration, XUI Rich Client
SBXA-16362	Prior to this release, XUI Browser Client users who ran the M:MENU process on an input screen saw the menu, but the menu background was transparent. This issue has been resolved.	Menus, XUI Browser Client
SBXA-16368	Prior to this release, running TU.GET.DEFAULT.PRINTER or TU.GET.PRINTER.LIST when the print spooler was stopped or disabled caused the Rich Client to fail. This issue has been resolved in v6.5.4. Now, a status of **1** is returned from the subroutine call and a warning message displays in the client log file.	Printing / XPS / PDF / HTML, XUI Rich Client
SBXA-16455	Prior to this release, TU.TO.EXCEL caused SB/XA Browser Client and Rich Client to fail if a second call was made after a failed transfer. This issue has been resolved in v6.5.4.	XUI Browser Client, XUI Rich Client
SBXA-16592	In v6.5.4, the **Default GUI Font** field with F1 and F3 intuitive help was added to the character version of the GUI Parms screen.	GUI Forms / Functions
SBXA-16625	In v6.5.4, a timestamp check was added that determines whether a newer version of the language translation file, `MessageLog.en-LOCALE.restext`, is available on the server and should be automatically downloaded from the `DEMRESOURCES` file to the XUI client. This language translation file can also be deployed as part of a ClickOnce deployment to the client.	XUI Rich Client
SBXA-16863	The `FIX.SBPLUS.POINTERS` command can be run from either the system administration account or a user account to fix the file pointers for SB+ and SB+.DEFN accounts. Running the command from a user account without specifying the correct path to the SB admin account causes issues. In v6.5.4, users who run this command from a user account without specifying the correct path to the SB admin account are prompted to enter the path.	Admin Tools

Issue number	Description	Components
SBXA-16906	In v6.5.4, a new tool that evaluates the scope of upgrade projects is available to run before starting the SB+ to SB/XA guided upgrade process. This subroutine, called SCOPE.UPGRADE, provides information about the programs, processes, files, fields, screens, and reports that will be involved in the upgrade. To use this tool, access the SB Admin account and locate the subroutine in the `SAPROGS` folder. Then, copy it to an SB+ v5 application account and run it. The information is output to a file called `SCOPE_':AcctName:'.csv`, stored in the `SCOPE_OUT` directory. For ease of viewing, import this file into a spreadsheet and divide the data into worksheets for each section. There are sections for: • Files-Screens-Reports-Fields • Program files • Processes for each system Id and global • Definitions for each system Id and global • Files and screen with interleaved grids • Interleaved grid layouts Interleaved grids are supported in Character and GUI modes, but are not supported in exactly the same manner in SBXA .NET Client. Ways to handle interleaved multivalue tables include: • Use a standard grid (XUI provides more space than character screens). • Use the CardView style automatically generated and based on the layout of an interleaved grid. The WrapPanel style, which arranges elements sequentially from left to right with line wrap, is the default. • Automatically generate a CardView style based on the interleaved layout of a character screen definition. In the screen designer, click **F6-Params**, and then **F7-XUI Params**. On the Screen XAML Parameters window, enter `C` in the **XUI Conversion Source** field. • Create a XAML style to define the layout of the CardView style.	Installation / Configuration

Issue number	Description	Components
SBXA-17005	In v6.5.4, a variety of statistical functions, such as Average, Count, Maximum, Minimum, and Sum, are available to use in multivalue selection processes and output grids. Custom descriptions can also be added to fields containing the results of these functions. To add statistical functions and descriptions to selection processes, select **F6 - Additional** and enter the function and its associated description in the table. To add statistical functions and descriptions to grids in output processes (XUI only), select the grid, press F5, and enter the function and its associated description in the table.	Multivalue Grids
SBXA-17017	Prior to this release, pressing the PgUp and PgDn keys in an interleaved XUI grid had no effect. This issue has been resolved in v6.5.4.	Multivalue Grids
SBXA-17044	Linux and UniVerse only. Prior to this release, users who pressed the Esc key while on the SB Control Parameters screen locked the record making it inaccessible to others, while the session remained connected. This issue has been resolved in v6.5.4 and now when the Esc key is pressed, the system prompts the user to save the record and exits, unlocking the record for others to access.	XUI Rich Client
SBXA-17080	In v6.5.4, entire GUI and XUI grids can be emphasized and deemphasized using the following syntax: ▪ **Deemphasized**: `ERR = SETATTR("MV.FLD21", G.EMPHASIZED, 0)` ▪ **Emphasized**: `ERR = SETATTR("MV.FLD21", G.EMPHASIZED, 1)` In these examples, **MV.FLD21** is the controlling field on the grid.	XUI Rich Client
SBXA-17096	Prior to this release, users attempting to relicense the product by clicking **F6 Re-license** on the LICENCE.AMEND and LICENCE.INFO screens, or by running LICENCE.RESET, received the following message in error: `INPUT MUST BE A NUMBER`. This issue has been resolved in v6.5.4.	Installation / Configuration
SBXA-17153	In v6.5.4, it is possible to copy data from non-input fields to the clipboard in XUI mode by pressing Ctrl+Shift+C.	XUI Rich Client
SBXA-17158	In v6.5.4, a new option was added to the Group Security Setup screen that allows users to change settings for other users in their group. The error message users receive if they lack permissions necessary to change these settings was also updated.	Admin Tools
SBXA-17162	In v6.5.4, LME.SIGNOFF and LME.SHUTDOWN contain accurate intuitive help that displays before the command runs and then prompts to continue.	Aldon Integration

Issue number	Description	Components
SBXA-17166	Prior to v6.5.4, **Windows** and **WindowsUserNamePassword** authentication types used the TLSv1.0 cipher suite, and the Rich Client would not connect when TLSv1.0 was disabled on the Communications Server. In v6.5.4, TLSv1.1 and TLSv1.2 were added, which resolved this issue. **Note:** Certificates for the SBXA Communication Server/Client need to be built with the additional parameter *-a SHA512*.	Communication Server
SBXA-17168	Prior to this release, the arrow keys did not work as expected when using custom input fields within a sorted grid. This issue has been resolved.	XUI Rich Client
SBXA-17175	In v6.5.4, a BASIC program was created to streamline the installation process. This program: ▪ Creates an SB instance. ▪ Creates three SB applications for the instance: SB+, SBDEMO, and SBSUPPORT. ▪ Adds these applications as accounts to the ROOT group on the Group Security Setup window. ▪ Adds these applications to the list of valid applications on the **Single Sign-On** tab of the User Security Setup window for specified users. This program also provides the option to store user IDs and passwords locally.	Admin Tools
SBXA-17187	Users can add translated text to a label on a GUI screen by running the TRANSLATE process, selecting the **GUI Screen Labels and Push Button Strings** option, and adding the translated text to the GUI Labels screen. Prior to this release, users could add one label with translated text, but subsequent label and button translations were not saved. This issue has been resolved in v6.5.4.	GUI Forms / Functions
SBXA-17201	Prior to this release, SB/XA would fail when the PgDn key was pressed on a grid where a custom style was used. This issue has been resolved.	XAML Styles
SBXA-17211	Prior to this release in versions 6.x only, the Initialize Users Password window did not accept user IDs longer than 8 characters. In v6.5.4, user IDs cannot exceed 20 characters.	Installation / Configuration
SBXA-17223	Grid changes in v6.5.1 resulted in an issue where using the arrow keys within newly added grid rows would cause the application to fail. A Hot Fix was provided for v6.5.1 and this issue has been resolved in v6.5.4.	XUI Rich Client
SBXA-17224	Prior to this release, the arrow keys ignored the sort/grouped/filtered order of the cells when navigating within a grid. This issue has been resolved.	XUI Rich Client

Issue number	Description	Components
SBXA-17226	Starting at v6.5.1, if users were editing a filtered grid and the next row was not available in the filtered set when the user pressed Enter, additional edits would not be saved. The **AllowAutoFilter** setting from Xceed was also not being handled correctly and XUI did not always recognize the grid filtering. A Hot Fix was provided for v6.5.1 and these issues have been resolved in v6.5.4.	XUI Rich Client
SBXA-17231	In v6.5.4, a new option called **enableOneInstance** was added to the **Client** tab of SB/XA Client Configuration window that makes it possible to restrict users from launching more than one instance of Rich Client. If this option is set to **False**, which is the default, users can run multiple instances. If this option is set to **True**, users can run only one instance.	XUI Rich Client
SBXA-17235	Using a new group setting available in v6.5.4, you can now disable the autologout feature for input screens. Autologout will only be disabled when @KEY is not empty and @ACTION equals 2 (Amend).	XUI Rich Client
SBXA-17236	Prior to this release, the GUI User Class Registration screen did not display the **Standard Attributes** and **Events** fields correctly. This issue has been resolved.	GUI Forms / Functions
SBXA-17237	In v6.5.4, users can resolve a group of conflicts at once, which can significantly expedite the conflict resolution process. Now, when users run the LME.CONFLICT LIST ALL -F* command, they are prompted to specify whether they want to resolve conflicts one by one or by group. Then, they are prompted to apply an action to the selected conflicts, such as Clear, Activate, Close, Open, Next or Quit.	Aldon Integration
SBXA-17249	In v6.5.4, when an SB tool definition is copied, SB prompts to add the newly created record to LMe for tracking changes so that users do not encounter errors when modifying and using it.	Admin Tools, Aldon Integration
SBXA-17259	Prior to this release, when users installed SB/XA with UniVerse on NLS-enabled systems and chose not continue the installation when prompted with an error message regarding NLS, the installation continued anyway and then failed. This issue has been resolved in v6.5.4 and the installation now ends when users choose not to continue the installation.	Installation / Configuration, Internationalization (NLS / Multi Language)
SBXA-17282	Prior to this release, if custom styles were used to enable focus on a grid in an output screen, the screen closed when users clicked the grid. In v6.5.4, a mouse-click event is no longer sent to the server from non-focusable objects, which resolved the issue.	XAML Styles
SBXA-17284	Prior to this release, if multi-language functionality was enabled and the **GUI Screen Labels and Push Button Strings** option was selected, the button defined was not displayed and could not be translated. This issue has been resolved in this release.	GUI Forms / Functions
SBXA-17289	Prior to this release, output screens would close if users clicked on unpopulated areas of a grid on the screen. This issue has been resolved in v6.5.4.	Multivalue Grids

Issue number	Description	Components
SBXA-17294	Prior to this release, users could not log into to the application twice when **SBXAUserNamePassword** or **CustomAuthentication** authentication types were used. The second login attempt used the description of the application as the key rather than the name of the application, which caused the login to fail. This issue has been resolved in v6.5.4.	XUI Rich Client
SBXA-17309	Starting at v6.5.2, when using an editable combo box with values derived from a table definition, users who selected a value from a combo box were unable to change the selected value back to **<none>**. This issue has been resolved in v6.5.4.	Form Controls (Radio / Combo / Text / Label / Toggle / Memo)
SBXA-17314	In v6.5.4, users who run the `LME.STATUS` command when a connection is not established will receive a message that informs them a connection is not established and reminds them to log on.	Aldon Integration
SBXA-17315	XUI only. Prior to this release, when the **Auto Accept Combo Boxes** option on the Auto Accept tab was set to **Tab** on the SB Control Parameters screen, and users typed a character in a combo box, the first value starting with that character was automatically selected and focus was placed on the next input field. This issue has been resolved in v6.5.4 and the auto accept feature is only used when there is one value starting with the character.	Form Controls (Radio / Combo / Text / Label / Toggle / Memo)
SBXA-17330	Prior to this release, multi-tabbed screens would hang when users tried to switch between tabs. This issue has been resolved in v6.5.4.	Process Definitions
SBXA-17364	In v6.5.4, when LME.ED is run for a new file, the "Would you like to create?" prompt works correctly and pressing the Esc key cancels the command.	Aldon Integration
SBXA-17365	In v6.5.4, the **Password** field on the LME.SIGNON screen is mandatory.	Aldon Integration
SBXA-17366	In v6.5.4, when LME.ED is run, the **E** (Edit only) option works correctly and allows local editing of a checked-in item.	Aldon Integration
SBXA-17367	In v6.5.4, if LME.ED is run when a connection is not established, the system provides a message and closes. In addition, the user name and password fields are formatted correctly and display in their entirety on the screen.	Aldon Integration
SBXA-17368	In v6.5.4, the FMT function, which controls printed output formatting, was changed to the STR function to correctly display results of the LME.STATUS command for UniData users.	Aldon Integration
SBXA-17369	In v.6.5.4, the LME.ADD command, used to register items in development to an LM(e) release, now works correctly. The syntax message has also been updated.	Aldon Integration
SBXA-17370	In v6.5.4, when users attempt to add a new task that has the same name as a closed task, they receive a message informing them that the task already exists.	Aldon Integration

Issue number	Description	Components
SBXA-17375	Prior to this release, if an entire grid was de-emphasized using the G.DRAWABLE property, the application stopped responding altogether if input fields did not exist after the grid in GUI and XUI modes. These issues have been resolved in v6.5.4. Now, when grids are de-emphasized, focus is placed on the next available input field. If no input fields are available, users receive a message informing them that the application is unable to find a field for focus and that the screen will close.	Multivalue Grids

SBXA-17390	In v6.5.4, you can chose to deploy your themes and custom controls with Rich Client using ClickOnce deployment techniques. Deploying these files locally means they no longer need to be stored on the server and downloaded from the client to the server, the first time the user connects.
	
	To use locally deployed themes, complete the following steps:
	
	1. On the Assembly Definition screen (/ASD):
	  ▪ Select the **Store Locally** option to indicate that the assembly is stored locally on the user's PC.
	  ▪ Enter the assembly name to be used in the **Assembly Name** field. For example, `Custom.Theme.dll`.
	  ▪ In the **Upload From** field, enter the path where the assembly is located on the PC.
	  ▪ Click **F6 - Upload** to ensure that the `.dll` file can be found on your PC.
	2. On the Theme Definition screen (/THEME.DEFN):
	  ▪ In the **Type** field, select A - Assembly.
	  ▪ In the **Assembly for File Name** field, enter the Assembly Definition ID.
	  ▪ In the **Class or Item Name** field, enter the class or item name for the theme from the `.dll` file.
	3. Add the theme to the list of available themes on the SB Control Parameters screen (/SB.PARMS) or the System Control Record (/HK.CONTROL).
		Custom Controls, XAML Styles, XUI Rich Client

SBXA-17398	Prior to this release, if Report Writer reports included total fields in a break section, the fields were printed as HTML tags rather than the expected value. This issue has been resolved.	Reporting (ARD / RW / SMART.QUERY)
SBXA-17407	When using Rocket Aldon Lifecycle Manager in an SB environment, users who attempt to edit a record that resides in a different account will receive a message. This message provides the location of the record and advises them to update the record from that account. This temporary solution was implemented for v6.5.4 and will be replaced with a comprehensive solution in a future release.	Aldon Integration

Issue number	Description	Components
SBXA-17414	In v6.5.4, a new option called **Only exit grid with Tab or mouse click** was added, which keeps the focus in the grid when users press Enter on an empty controlling field. This option is available in SB Control Parameters, System Control Record, and User Flags.	Multivalue Grids
SBXA-17476	Starting at v6.5.2, if an application contained multiple systems, and users were working in systems other than the primary system, the @SYSID was changed when users ran reports with a defined stationery type. This issue was resolved in v6.5.4.	Printing / XPS / PDF / HTML, Reporting (ARD / RW / SMART.QUERY)
SBXA-17486	Starting at v6.4.0, when the **Restrict Display of Heading if Greater than 50% of Available Space on Screen** setting was selected on the **Reports** Tab of the SB Control Parameters screen, the value of DMCONT SB.CONTROL<30,20> was set to **Y** or **N**, when it should have been set to **1** or **0**. This issue has been resolved in this release.	Reporting (ARD / RW / SMART.QUERY)
SBXA-17503	Prior to this release, if a report contained a field with a derived value of @CONTROL<3,2> , the value correctly displayed when the report was sent to a screen. However, when the report was sent to a printer, the value @CONTROL<3,1> displayed. This only occurred on accounts with more than one system, and did not occur on the primary system. This issue has been resolved in v6.5.4.	Reporting (ARD / RW / SMART.QUERY)
SBXA-17505	In versions 6.5.0 through 6.5.2, users who accessed a list of values by pressing F3 could scroll through the list the first time, but could not use the scrolling functionality the second time they accessed the list. This issue has been resolved.	Intuitive Help
SBXA-17530	Prior to this release, UniData users running the XUI Rich Client received error messages for each screen in a set of tabbed screens if the file name contained a period prior to the numeric portion of the screen name. This issue has been resolved.	XUI Rich Client

SB/XA v6.5.3 release notes

Build 6716
Release Date: December 2017
These release notes provide information about enhancements and fixes in SB/XA v6.5.3.

Enhancements and fixes in SB/XA v6.5.3

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-17038	Previously, when the **Grid Paging** (**G**) option was selected on XUI multivalue grids with non-input and derived fields, some of the grid data did not correctly display. This issue was resolved in v6.5.3.	Multivalue Grids, XUI Rich Client

Issue number	Description	Components
SBXA-17176	In previous versions, the `TU.SEND.TO.RAW.PRINTER` subroutine did not work with network printers in XUI mode because the subroutine was using shorter versions of printer names. The error message users received when this issue occurred was also incorrect. In v6.5.3, the subroutine code was changed to use the full name of network printers, which resolved the issue. The Windows error code was also corrected so the correct error message displays, when appropriate.	Printing/ XPS/ PDF/ HTML, XUI Rich Client
SBXA-17191	In previous versions of SBClient in GUI mode, the calculator returned an error message if a comma was defined as a decimal symbol in Windows (**Control Panel → Region → Additional Settings**). This issue was resolved in v6.5.3 and the calculator no longer displays an error when using the comma as the decimal symbol.	GUI Forms/ Functions
SBXA-17215	Previously, users could not apply different themes in different accounts with the same System ID. In v6.5.3, the theme name for each system is stored in and retrieved from the `DMSECURITY` file using the account name '*' System ID, which resolved this issue.	XAML Styles
SBXA-17229	Previously, themes were cached in the same directory on users' computers without a way to differentiate between themes with the same name, which could be used in different accounts, on different systems, and set up differently in each instance. In v6.5.3, themes are named using a `<host id>_<account name>_<theme name>` convention to further differentiate between themes. This convention allows the same theme name to be used on different machines, and in different accounts on the same machine, and for each theme to have different behaviors, as the theme will now be unique regardless of its name.	XAML Styles
SBXA-17240	Starting with v6.5.3, SB/XA running on Windows is compatible with LMe.	Aldon Integration
SBXA-17251	Previously, users were prompted to check out records from LMe even if they had been checked out when other processes were run. This issue was resolved in v6.5.3, and users can now run the `LME.STATUS` command with the **FILTER** option to see a list of LMe records sorted by status. The `LME.UNCHECKOUT` and `LME.ADD` subroutines were also enhanced and now display messages on the prompt line.	Aldon Integration
SBXA-17252	Several `LME.INIT` items were enhanced in v6.5.3: ▪ Users are now required to complete all fields on the `LME.INIT` screen, which will prevent them from receiving LMe server initialization errors. ▪ The `LME.INIT LIST` command now works on Windows and the non-numeric errors no longer display. ▪ The LMe initialization information users receive is displayed as messages instead of errors.	Aldon Integration
SBXA-17253	In v6.5.3, the `LME.CHECKIN.TASK` command informs users if conflicts exist between their local records and LMe records.	Aldon Integration

Issue number	Description	Components
SBXA-17254	In previous versions of SBClient in character mode, the screen did not display correctly after a record was checked out from LMe. This issue was resolved in 6.5.3.	Aldon Integration
SBXA-17255	In v6.5.3, users can run the `LME.CONFIG` command to initially configure LMe, which guides them through the configuration process, but unlike previous versions, users can cancel the process at any time.	Aldon Integration
SBXA-17260	In v6.5.3, `LME.INIT`, `LME.SIGNOFF`, `LME.SETDEVENV` and `LME.SHUTDOWN` error messages display in the correct format.	Aldon Integration
SBXA-17261	Previously, users who ran the `LME.SIGNON` command from TCL occasionally experienced system non-responsiveness. This issue was resolved in v6.5.3.	Aldon Integration
SBXA-17262	In v6.5.3, users can associate development accounts with an LMe release containing spaces in the name while running the `LME.INIT` command.	Aldon Integration
SBXA-17265	In v6.5.3, the `LME.CONFLICT` command was modified and now returns a list of records with conflicts if they exist, and informs users whether actions were successfully completed.	Aldon Integration
SBXA-17266	In v6.5.3, the `LME.CHECKIN.ALL` command displays a list of records that can be checked into LMe.	Aldon Integration
SBXA-17267	In v6.5.3, the `LME.GET` command can be run as a process, and not only run from TCL.	Aldon Integration
SBXA-17268	In v6.5.3, the `LME.TASK` command can be run as a process, and not only run from TCL.	Aldon Integration
SBXA-17269	In v6.5.3, users who open process definitions will not be prompted to check records out if they are already checked out.	Aldon Integration

SB/XA v6.5.2 release notes

Build 6665
Release Date: October 2017
These release notes provide information about enhancements and fixes in SB/XA v6.5.2.

SB/XA is FIPS-compliant

Only FIPS-compliant algorithms are used in our client code for encryption, hashing, and signing as of v6.5.2, increasing system security.

New XAML style examples available in SBDEMO

The SBDEMO demo account was enhanced to include several new XAML style examples, which can be used to quickly change the look and feel of multivalue grids. These style examples are based on a new minimalistic theme called **FlatTheme**, which is located in the `XATHEME` file. The `XATHEME` file also contains the **FlatTheme** examples and their associated styles.

To access these examples, click the **XAML Style Examples** menu at the top of the page.

Refer to SBDEMO XAML Style Examples on the Rocket Community site for specific information regarding each of these style examples.

Installation process and license expiration warning enhancements

An installation process enhancement added to v6.5.2 checks the size of the `DMSECURITY` file and automatically resizes the newly installed `DMSECURITY` file to be the same size, increasing system performance.

A license expiration warning enhancement was also added to this release, which allows users to customize license expiration warnings. SB begins displaying license expiration warnings 30 days before a license expires, which is not ideal in some environments.

Now, users can specify who will see these warning messages and when they will begin to see them. For example, for a specific group of users to begin seeing this warning 10 days prior their license expiration, access the **Security** tab of the SB Control Parameters form and enter `10` and the name of the user group in the appropriate fields.

Grid objects now available in the XUI Screen Designer

A new grid object was added to the XUI Screen Designer in this release, which allows users to quickly create a grid and establish properties for the grid and the fields within it. The grid object is accessible from the object palette and easy to size on the form. Users can specify the size of the grid, its location on the form, and apply a style to it. After placing a grid object on a form and adding data to it, users can also filter, sort, and group the data.

Refer to "Placing grid objects on a form" in the *SB/XA Designer Help* guide for details.

Enhancements and fixes in SB/XA v6.5.2

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-1093	Previously, if a user ran a report in the XPS Viewer, clicked the **Call SB Process** button, and entered a process but then clicked **Cancel**, the process would still be called. If they clicked **Cancel** without entering a process, they would receive a "Process not found" message. These issues were resolved in v6.5.2.	Reporting (ARD/ RW/ SMART.QUERY)
SBXA-3419	In v6.5.2, when the WCF connection to the communication server fails when using message security, and the time on the client system and the communication server differ by more than five minutes, an additional line will be added to the message displayed to the user, indicating that the time difference is a possible cause of the failure.	Communication Server
SBXA-3584	Previously, when users moved a field on the XUI Screen Designer to a new sequence position higher than its original position on the client and pressed F5, fields referenced the wrong field name. This issue was resolved in v6.5.2.	GUI Forms/ Functions
SBXA-9664	Prior to this release, pressing the F3 intuitive help key removed wrapped text from free-form fields leaving the first line in GUI and duplicating data in XUI. The F2.Save key is next to F3 key and the wrong key can be easily selected, which increases the possibility of users accidentally saving incorrect data. This issue was resolved in v6.5.2.	Character Screens
SBXA-10084	Data contained in input and non-input right-justified fields do not correctly align on the form because label and input objects are padded differently. Applying a new style available in v6.5.2, called **NoPadSBLabelStyle**, corrects this issue and can be applied to a label, either locally or globally.	XUI Rich Client

Issue number	Description	Components
SBXA-10669	In XUI mode, selection windows generated from inline selection statements are significantly wider than in GUI mode by default, but in v6.5.2, you can specify the width of each column in the selection grid in pixels using the additional XUI **O** option. For example, the select statement SELECT CUST CODE NAME (O20,120 returns a grid displaying the customer's code in the first column (20 pixels wide) and name in the second column (120 pixels wide).	Intuitive Help
SBXA-10948	In v6.2.2, DISP 9 behavior was not the same in GUI and XUI clients when using ENO navigation style. This issue was resolved in v6.5.2.	XUI Rich Client
SBXA-10971	Previously, when generating code from a paragraph, the generated subroutine compiled, but users received a compiler warning message anyway. This issue was resolved in v6.5.2.	Process Definitions
SBXA-10985	In 6.5.2, an enhancement to the installation process will check the size of the DMSECURITY file and resize the newly installed DMSECURITY file to be the same size.	Admin Tools
SBXA-11250	Previously, if DISP 9 was used in a GUI form and the message contained more than 80 characters, a slide bar displayed that allowed you to scroll to see the entire message in the status bar. If DISP 9 was used in a XUI form and the message contained more than 80 characters, the message was truncated. This issue was resolved in v6.5.2, and messages now appear in their entirety in the status bar.	Process Definitions
SBXA-11623	Previously, the Rich Client would fail when users selected the **Output to File** option when running XUI Query reports. This functionality is yet not in place in XUI so in v6.5.2, users who select this option will receive a message informing them they can save their Query report output to file via the **Screen XPS** option.	Reporting (ARD/ RW/ SMART.QUERY)
SBXA-11714	In v6.5.2 , a new option, **iNdent**, was added to the SE editor's action bar to toggle automatic indentation on or off. ▪ Automatic indention is turned on by default, and automatically indents each line when you paste or type in text with multiple lines. ▪ When automatic indention is turned off and you paste or type text with multiple lines, each new line is inserted directly beneath the previous line. Pressing Return while this feature is turned off will place your cursor at the beginning of the next line.	Admin Tools
SBXA-11818	In previous releases, character screens that included graphics boxes and vertical lines with T-bars at the ends did not appropriately position or align all objects on default GUI forms. In v6.5.2, the way in which graphic objects are processed was changed. which corrected this behavior.	Installation/ Configuration
SBXA-13301	An enhancement in v6.5.2 allows you to specify field font types, sizes, and colors in the XUI screen editor and save your settings. To access this configuration window, select **View → Options**. The **Show line numbers** and **Show unprintable characters** options have also been moved from the menu to this window.	SE Screen Editor

Issue number	Description	Components
SBXA-13309	In previous releases, when creating a new subroutine with the / SE editor, and it failed to compile, users would be unable to save or re-compile the subroutine again until they exited the SE editor. This issue is resolved in v6.5.2.	SE Screen Editor
SBXA-13524	Previously, when users ran XPS reports and exported the data to Excel, report headings and column headings were treated as text and did not correctly display across columns. In v6.5.2, the report process now informs the Rich Client of the number of heading lines and whether the report has a column header. The heading lines are stripped from the text file created for Excel to import, and then inserted from the first page back into the report. The column headers are also included in the text file, which usually helps Excel with parsing. Excel is now also asked to open the text file in the text encoding in which it is saved (i.e. UTF-8) to ensure all characters are correctly handled. **Note:** This process depends on Excel's text parsing to correctly identify and pull out column headers, so some reports will likely not be handled correctly.	Printing/ XPS/ PDF/ HTML, Reporting (ARD/ RW/ SMART.QUERY)
SBXA-13545	(XUI only). In previous versions, a GUI field marked as a **Combo Box Editable** object type would allow users to enter a value that did not exist in the combo box. This issue was resolved in v6.5.2.	Form Controls (Radio/ Combo/ Text/ Label/ Toggle/ Memo), XUI Rich Client
SBXA-13841	SETPTR logging was added in v6.5.2. This feature is enabled via a flag on the **System** tab of HK.CONTROL. If enabled, SETPTR completed commands will be captured in the `SROC.LOG` file. The SROC.LOG item id is `PORT:'_':ConnectionDate:'_':ConnectionTime`.	Printing/ XPS/ PDF/ HTML
SBXA-14040	Previously, when users entered a new account on the Group Security Setup (SEC.GROUP.SETUP) that was not part of the parent group, they received a message referencing the wrong account. In v6.5.2, this message was updated to accurately display the name of the account.	Installation/ Configuration
SBXA-14610	In v6.3.0, when users added a theme to the System Control Record (HK.CONTROL) for one account, the system displayed that theme on all accounts, even when the accounts were installed on different machines. This issue was resolved in v6.5.2. Now, if the system does not have a default theme or a theme selected, it will check the current theme on the client against its list of available themes and reset the theme to the default SB/XA theme.	XUI Rich Client
SBXA-15375	Previously, when a group was deleted and the group name was a partial end-match with another group name, restrictions were erroneously deleted for both groups (for example, if group TOP was deleted, group PEN.TOP's restrictions were also deleted). This issue was resolved in v6.5.2.	Admin Tools

Issue number	Description	Components
SBXA-15855	The XUI screen editor was enhanced in v6.5.2 to restore the cursor position to the last item written when the program is re-edited. Like the CHAR version of the screen editor, the XUI screen editor only restores the cursor position if the item is the next edited. The cursor position is saved to the local client cache (item _SE_CURSORPOS).	SE Screen Editor, XUI Rich Client
SBXA-16181	In v6.5.2, a new grid object was added to the XUI Screen Designer, which allows users to quickly create a grid and establish properties for the grid and the fields within it. The grid object is accessible from the object palette and easy to size on the form. Users can specify the size of the grid, its location on the form, and apply a style to it. After placing a grid object on a form and adding data to it, users can also filter, sort, and group the data. Refer to "Placing grid objects on a form" in the *SB/XA Designer Help* guide for details.	XUI Form Designer
SBXA-16184	In v6.5.2, you can create process calls or expressions to generate level 1 help (Tooltip in GUI / XUI) for fields. If the tooltip is a process call, it should set the @VALUE option with the tooltip string. In Character and the XUI client, the tooltip will be evaluated at runtime. In GUI the tooltip will be evaluated when the driver is built.	Multivalue Grids
SBXA-16406	In previous versions, icons specified through Menu Definitions (MD) were not displayed for EMO mode Outlook-style menus in the XUI client. These icons are available in v6.5.2.	Menus, XUI Rich Client
SBXA-16555	In previous versions, in Application Setup, validation was not performed on the **SBXA Admin Account** field. In v6.5.2, this field is validated to ensure that only one application is identified as the SBXA Admin Account.	Installation/ Configuration
SBXA-16621	SB begins displaying a daily license expiration warning 30 days before the license will expire. An enhancement in v6.5.2 allows administrators to specify which user groups will see this warning and when they will begin to see it. For example, for users to begin seeing this warning 10 days prior their license expiration, enter 10 in the appropriate field on the **Security** tab of the SB Control Parameters form. Both the number of days and the user groups that will see the message can be specified on the **Security** tab of /SB.PARMS.	Installation/ Configuration
SBXA-16756	Previously, SB/XA would fail on startup when an exception occurred instead of displaying an error message explaining the exception. The error message failed to display because the resources required to translate the message were not yet loaded. In v6.5.2, an error message, written in English, will display even if the parent window closes.	XUI Rich Client

Issue number	Description	Components
SBXA-16760	The **ExecuteSBPlusFieldUpdateProcessCommand**, a new client command available in v6.5.2, ensures the current field in a XUI.NET theme or control is updated before the specified process is run. To invoke this command, use `SBCommands.ExecuteSBPlusFieldUpdateProcess` `Command.Execute (processName,` `SBPlus.Current)`, where **processName** is set to the name of the process to run.	Custom Controls
SBXA-16794	Prior to this release, the code used to generate the KEY for the `DMUSERLOG` file did not take into account the fact that UniVerse was changed at version 10 to include milliseconds in the value returned from the TIME() function. This change resulted in a different KEY than expected, which caused problems for user reports. In v6.5.2, only the integer portion of the value returned by the TIME() function is used for the KEY, ensuring that all other fields and reports on the `DMUSERLOG` file will function as designed.	Admin Tools
SBXA-16802	In certain circumstances in previous versions, the **Recalc** function did not properly update totals on a screen. This issue only occurred on GUI forms, if the total field was a non-grid, multivalue field, and if the field was the last field on the form. If you made changes to the data and used **Recalc**, the total was not updated correctly. This issue is fixed in v6.5.2.	GUI Forms/ Functions
SBXA-16820	In v6.5.0, field validations were not applied when using the **Write** method in the Service Request Builder. This issue was resolved in v6.5.2, and suitable error messages now display if validations fail.	SBXA Services
SBXA-16832	In v6.5.2, the window coordinates of type 1 menus in XUI or GUI no longer have window coordinate restrictions, but users will receive a warning message if the type 1 menu coordinates exceed 80 characters. This warning message is designed for those defining the menu in CHAR mode but running it in GUI, as the maximum width is 80 characters in CHAR mode.	Menus
SBXA-16843	In v6.5.0, if the selection process with option **U** was used, the system did not return a record count, which caused it to ask for additional data. This issue was resolved in v6.5.2.	XAML Styles
SBXA-16848	In v6.4.0, when users clicked the scroll bar of a non-grid multivalue table in GUI mode, they received the error message, "SB.INTERP.I line 3889 Division by zero." This issue was resolved in v6.5.2.	GUI Forms/ Functions
SBXA-16873	Previously, when users compiled a theme that would not run, the Rich Client would fail. In v6.5.2, a new option called **Block Theme on a Fatal Error** was added to the client configuration to block a theme after a fatal error. Selecting **True** will block the theme after a fatal error, and selecting **False** will allow you to reselect the theme.	XAML Styles

Issue number	Description	Components
SBXA-16874	In previous versions, in the XUI client when the navigation mode was MainWin, the arrow used to display the XPS menu was still displayed but performed no function. In v6.5.2, the arrow no longer displays when an MPX tree is not being used (for example, when the navigation mode is MainWin).	XUI Rich Client
SBXA-16917	In previous versions, when a toggle field had a default process, and the user clicked on the field with a mouse, and **Auto Accept Toggles** was set to **Tab** in SB+ parameters, different behaviors were experienced in GUI and XUI: ▪ In GUI, the default process was run but the toggle value was not refreshed to show the correct value. ▪ In XUI, the default process was not even run. In v6.5.2, this behavior was corrected. Developers should note that the default process will set both the value of @RECORD and @VALUE.	Form Controls (Radio/ Combo/ Text/ Label/ Toggle/ Memo), GUI Forms/ Functions, XUI Rich Client
SBXA-16920	In previous versions, when a theme was compiled, users received an error message if the **Class** or **Item Name** in the theme definition was not the same as the **Theme Name**. In v6.5.2, the **Class** and **Item Name** are used when themes are compiled, which resolved this issue.	XAML Styles
SBXA-16921	In v6.5.2, the SBDEMO demo account was enhanced to include several new styles, which can be used to quickly change the look and feel of multivalue grids. These styles are accessible through the new **XAML Style Examples** menu.	Multivalue Grids
SBXA-16944	In v6.4.1, REGEN.EXP would fail for files when **ALL files** was selected and the previous file in the **FILES** record in xxCONTROL contained a report definition. This issue was resolved in v6.5.2.	Admin Tools
SBXA-16960	In v6.5.0, a security fix was implemented that requires SB users making requests via Services to have a single-sign-on. If single-sign-on is not set up, users receive an error message. In v6.5.2, this error message was updated to inform users they entered an invalid user name or password, as opposed to informing them that the "Object reference not set to an instance of an object."	SBXA Services
SBXA-16973	In v6.5.0, it was not possible to change the text of a tab label in a XUI form using the Set Attribute (SETATTR) function. This issue was resolved in v6.5.2 and tab label text can now be easily changed.	XUI Rich Client
SBXA-16974	In v6.5.0, intuitive help on the Screen Designer displayed only 10 characters of the screen name, making it difficult to choose between similarly named screens with more than 10 characters. In v6.5.2, intuitive help on the Screen Designer displays up to 30 characters.	Field Definitions
SBXA-16982	Beginning with v6.5.2, only FIPS-compliant algorithms are used in our client code for encryption, hashing, and signing.	XUI Rich Client
SBXA-16992	In v6.5.2, /FSD brings up the same screen as /SRD: Service Definition - File Service.	SBXA Services
SBXA-16993	In v6.5.2, SBXA Service File Definitions are accessible from the **Tools → Other Tools** menu.	SBXA Services

Issue number	Description	Components
SBXA-17004	Previously, process calls via a service were case-sensitive. In v6.5.2, users can call a process from a service using lowercase or mixed-case characters.	SBXA Services
SBXA-17012	Previously, when users ran XPS reports containing large amounts of data and cancelled them, the cancel action was not implemented until the report completed, and the XPS Viewer became unresponsive until the reports finished processing. This issue was resolved in v6.5.2.	Printing/ XPS/ PDF/ HTML, XUI Rich Client
SBXA-17015	In previous versions, paragraphs with multi-byte characters found in Chinese, Japanese, and Korean languages would not save. This issue was resolved in v6.5.2.	Internationalization (NLS/ Multi Language)
SBXA-17026	The **SBWindowsVersionConverter** and the **SBProcessTypeToStringConverter** were not public in v6.5.0, but are public in v6.5.2.	XUI Rich Client
SBXA-17027	In v6.4.0, the XUI grid did not refresh correctly when the **Grid Paging** option was selected. This issue was resolved in v6.5.2.	Multivalue Grids, XUI Rich Client
SBXA-17030	In previous releases, the REGEN.EXP process would not correctly regenerate expressions in the xxPROCESS file where the expression included an equated variable, as defined via /EXP.EQU. Common variable equate expressions are stored in the xxDEFN file, which were processed after the xxPROCESS file. In v6.5.2, Equate expressions are generated before processes.	Installation/ Configuration
SBXA-17057	In previous releases, in all presentation modes, if the controlling multi-valued field was not an input field, its value would not be displayed.	Character Screens
SBXA-17061	A new attribute, G.GRID.STYLE, was added to v6.5.1 for the SETATTR function, which allows users to set the **SBMvEditcontrolStyle** of a grid: `SETATTR(@OBJ,G.GRID.STYLE,"MySBMvEditControl Style":@VM:"SBXGridView ")` These values are the same as the name of the style and the type of Xceed grid view you want to use.	XAML Styles
SBXA-17098	In v6.4.0, wIntegrate and Dynamic Connect would hang when the F6 key was used to perform the **Forward search** function in an SB+ select process. This issue was fixed in v6.5.2.	Character Screens
SBXA-17099	In previous versions, multivalue grids were not refreshed when the REFRESH variable was set via a default process on the **Process Before** field call. This issue was resolved in v6.5.2 and the REFRESH variable is now checked after the **Process Before** call and the appropriate refresh subroutine is called.	Multivalue Grids
SBXA-17101	In previous versions, XAML user data for multivalue grid fields was not appropriately captured. In v6.5.2, the server and client code was modified so that the XAML user data for the fields in a grid are added to the grid definition. This information is then used as the column definition for that field in the grid.	XAML Styles

Issue number	Description	Components
SBXA-17147	In v6.5.2, grid toggle functionality in forms was updated to ensure settings made via a default process are correctly implemented and toggle values display as expected.	Form Controls (Radio/ Combo/ Text/ Label/ Toggle/ Memo), GUI Forms/ Functions
SBXA-17156	In v6.5.0, SB.FD.S did not regenerate validation expressions enclosed in parentheses. This issue was resolved in v6.5.2.	Installation/ Configuration
SBXA-17183	Previously, users intermittently received error messages when running the LME.STATUS command and then running /MD or / DIALOG.DEFN commands. The SYSID variable was assigned to LME.STATUS in v6.5.2, which resolved this issue.	Aldon Integration

SB/XA v6.5.1 release notes

Build 6572
Release Date: August 2017
These release notes provide information about enhancements and fixes in SB/XA v6.5.1.

Enhancements and fixes in SB/XA v6.5.1

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-13991	Beginning at v6.5.1, a new attribute equate, G.GRID.STYLE, has been added for the `SETATTR` function that will allow you to set the SBMvEditcontrolStyle of a grid. ```SETATTR(@OBJ,G.GRID.STYLE, "MySBMvEditControlStyle":@VM: "SBXGridView ")``` The values passed are the name of the style and the type of Xceed grid view you want.	XAML Styles
SBXA-16384	Beginning at this release, users can create a data entry custom control. The SBField class can now be styled to use the new control rather than the standard GUI types. The following four style variations were added: ▪ Input ▪ Output ▪ Input multivalue ▪ Display multivalue For detailed instructions on how to create a data entry custom control, see the "Data Entry Custom Control" section in the *SBXA Documentation.chm* file that accompanies the product. An example Visual Studio C# project called "SBXAInkControlExample" is also included.	Custom Controls, External Application Integration

Issue number	Description	Components

SBXA-16628	At v6.5.0, the Advanced Form Display was implemented and the SBPlus.Current.CurrentWindow class property was removed. To enable this property, replace SBPlus.Current.CurrentWindow != null with the following code:
	
	``
	WindowFormController
	windowFormController =
	SBPlus.Current.FormController
	as WindowFormController;
	if (windowFormController
	!= null)
	{
	SBWindow currentWindow =
	windowFormController.TopFormContainer as
	SBWindow;
	if (currentWindow != null)
	``
	
	This issue has been resolved.
		XAML Styles

SBXA-16717	XUI only. Previously, using `TU.DOWNLOAD` on a file could cause the file to be corrupted. The main host transfer program has been updated for both `TU.DOWNLOAD` and `TU.UPLOAD`. This issue is fixed.	XUI Rich Client
SBXA-16749	Previously, it was possible that the client would not recognize that a grid cell had focus. This issue has been resolved in v6.5.1.	Multivalue Grids

Issue number	Description	Components

SBXA-16764	Beginning at this release, the XAML Display Style field has been added to the Field Definition/Addit Screen and Screen Definition - Field Definition/Addit Screen that will change the display style of a field when used for input.
	
	 For single-valued fields, the XAML Style is used for input fields and the XAML Display Style is used for output fields.
	
	 For multivalued fields, the XAML Style is used while data is being entered into a grid cell and the XAML Display Style is used in all other cases.
	
	 For both single-valued or multivalued fields, if XAML Display Style is not defined, it will use the same value as XAML Style.
	
	 If no field or screen field styles are set, the value falls back to values in the System Control Record (HK.CONTROL), Account record, or the SB+ Control Parameters (SB.PARMS).
	
	 Three new fields for each style have been added to these screens for fields, toggles, combo boxes, radio buttons, and memo fields. Each of these field types now has four style fields, which are as follows:
	
	 ▪ Edit style
	 ▪ Display style
	 ▪ Grid (MV) edit style
	 ▪ Grid (MV) display style.
	
	 If a user defines any of these fields on a screen for an object type, all fields from this screen will be used when looking for a fall back and the next record will not be consulted.
	
	 For backward compatibility, if not set, the new fields fall back as follows:
	
	 ▪ • Display Style - Edit Style
	 ▪ MV Edit Style - Edit Style
	 ▪ MV Display Style - MV Edit Style
	     ▫ If MV Edit Style is also not set - Display Style
	     ▫ If MV Edit Style and Display Style are not set - Edit Style.
		Form Controls (Radio/Combo/ Text/Label/Toggle/ Memo)

SBXA-16822	In previous versions, the `Recalc` function did not update totals on a screen. This only happened in a non-grid multivalue if the total field was resequenced and was not the last field on the screen. This issue is fixed in v6.5.1	GUI Forms/ Functions
SBXA-16877	XUI only. Code was added at v6.5.1 to stop unnecessary grid focus events from being sent after entering new data into a grid and clicking the value. This change had the unintended side effect of causing an error message to display if a user clicked on an empty grid. This issue is resolved.	XUI Rich Client

SB/XA v6.5.0 release notes

Build 6435
Release Date: May 2017
These release notes provide information about enhancements and fixes in SB/XA v6.5.0.

Known issues in SB/XA v6.5.0

In this release, UniRPC and UniRPCD supports both IPv4 and IPv6 addresses. IPv6 compatibility provides the ability to create more IP addresses, as IPv4 addresses are running out. In addition, IPv6 utilizes a more secure data package including end-to-end encryption and better name resolution with the Secure Neighbor Discovery (SEND) protocol.

Note: UniVerse device licensing is not supported on IPv6 protocols. If you are connected using an IPv6-only client, the `uvlictool` command displays 127.0.0.1 (localhost) as the IP address. If you are using IPv6 protocols while device licensing is enabled, please contact support@rocketsoftware.com for assistance.

Some browsers no longer accept certificates created with the older version of the Microsoft `makecert` tool that is currently shipped with SB/XA because they are now deemed insecure. Beginning at v6.6.0, the tool will be updated to create enhanced server certificates. If you need to create these types of certificates, which support new options (e.g. - a sha512), you need to download the new tool.

Enhancements and fixes in SB/XA v6.5.0

The following issues were addressed in this release:

Key	Release notes	Components
SBXA-4909	Previously, if you used an @WORK variable in the selection criteria of a QRD report and directed output to Excel or Word, the report failed. You received a `No items selected` message. This problem is fixed in v6.5.0.	Reporting (ARD/RW/SMART.QUERY)
SBXA-8056	Previously, if SB.CONTROL<15,12> (Inhibit auto accept field on TAB and so on) was set to **1**, mandatory flags set on a field would be ignored. This issue has been resolved.	Installation / Configuration
SBXA-9541	Prior to this release, SB.CONTROL<15,18>, Phantom Sleep Time, was not listed in the character version of the / SB.PARMS screen. This issue has been resolved.	Admin Tools
SBXA-11483	GUI and XUI only. Previously, because a memo field was created as a grid field with multi-language support enabled, the client would crash. This issue has been resolved.	XUI Rich Client

Key	Release notes	Components

SBXA-11713	GUI only. Previously, some of the field lengths in SB+ were too small, which affected the visibility of several screens. Issues have been resolved in the following SB tool screens:
	
	▪ Field Definitions
	▪ Menus Definitions and F6-Addit
	▪ Assignment Processes
	▪ Report Writer
	  ▫ F6.PDF – **Preferences** tab
	  ▫ F6.PDF – **Content** tab
	  ▫ F6.PDF – **Background** tab
	  ▫ F6.PDF – **Advanced** tab
	▪ Smart.Query Report Process Defn
	▪ Generate Source Code
	▪ Graph Definitions – F5.GUI parameters
	▪ Logical File Definition – F5. Resequence Dict
	▪ Language Translation
	  ▫ Single language
	  ▫ Translate parameter
	  ▫ F5. International Chars
	▪ House Keeping – Create Batch File
		Admin Tools, GUI Forms/Functions

SBXA-12124	Prior to this release, the message `NO ITEMS SELECTED` would display when a report definition contained a Grand Total with no break lines with the HTML flag selected. This issue has been resolved.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-12384	In previous versions, if you used SETATTR to change the column headings of a grid with options CIADE, an extra column was added to the grid. This issue is resolved in v6.5.0.	Multivalue Grids
SBXA-12876	In previous versions, if several sessions of SB/XA were launched at the same time, some sessions failed to launch. This problem is resolved in v6.5.0.	XUI Rich Client
SBXA-13117	In previous versions, if you set the navigation method to ENO, system IDs were not displayed in the GUI client. This problem is fixed in v6.5.0; system IDs are now displayed in GUI when the navigation method is ENO.	GUI Forms/Functions, Menus

Key	Release notes	Components

SBXA-13242	Previously, users were only able to install one version of the Communications Server on a system. Beginning at this release, users can install multiple instances or upgrade an existing Communications Server. Now, during the installation process, an additional prompt asks if the user would like to upgrade or install a new instance of the Communications Server.
	
	On the last screen of the install, if the **Start the Windows Service** check box is selected, an error message similar to the following can display:
	
	`Possible failure to add/start Service.`
	`Please check Computer Management -`
	`Services for full status.`
	
	This error message could be displayed because an existing server is running on the default ports when installing multiple Communications Servers. For detailed instructions on reassigning the ports, see *SB/XA Getting Started*.
		Communication Server

SBXA-13639	XUI only. Prior to this release, output was not produced when users chose the file output option for an HTML report. This issue has been resolved.	XUI Browser Client, XUI Rich Client
SBXA-14109	UniData only. Previously, when using the following syntax in the QRD tool and sending the output to Word or Excel, a 401 error would display: `Fieldname = fieldname` This issue has been resolved.	Reporting (ARD/RW/SMART.QUERY)
SBXA-14188	Beginning at 6.5.0, the CHECK.SBPLUS.POINTERS routine was added. The CHECK.SBPLUS.POINTERS routine is used to check SB/XA programs and file pointers. In prior releases, there was no process to report upon errors; there was only the FIX.SBPLUS.POINTERS routine to correct errors.	Installation / Configuration
SBXA-14456	Previously in SB+ and SBXA v6.x.x, when a user logged in and the DMSECURITY record for that user was locked, a record locked message displayed and required user input to continue. This could cause problems if the processes were automated. This issue has been fixed.	External Application Integration, Installation / Configuration
SBXA-14457	Previously, in XUI only, if you attempted to change the number of columns in which your toolbar was displayed, the change was ignored and your toolbar was displayed in one column. This issue is resolved in v6.5.0; your column changes are effective in XUI.	XUI Rich Client
SBXA-14695	At v6.5.0, SB/XA added a new navigation method: EBO. With EBO, the XUI client uses ENO navigation, and the GUI client uses EM navigation. For more information, see "Navigation methods" in the *SB/XA Developer's Guide*.	Menus

Key	Release notes	Components
SBXA-14937	Previously, when a user entered invalid credentials, the input focus was incorrect on the Connect to Application screen when using a central configuration file and CustomValidation authentication type. This issue has been resolved.	Installation / Configuration, XUI Rich Client
SBXA-15217	Previously, when running the BASIC program TU.BUILD.XFER.DATA, there was a limit on the field lengths, which caused data to not be available for download. This was caused by the `REFORMAT` statement exceeding 4,096 bytes. Starting at 6.5.0, if the `REFORMAT` statement exceeds 4,096 bytes, a proc will be written to the VOC as SB.XFER.TEMP<port>, and then run.	Communications / File Transfer
SBXA-15331	In previous versions, when executed from the XUI clients, the "+","-","!", and "&" prefixes for the commands to TU.EXECUTE.SHELL were not implemented. This meant that whatever was executed would be executed as hidden when it could actually be waiting for input, which would effectively hang the client. This problem is fixed in v6.5.0.	XUI Rich Client
SBXA-15363	A new feature has been added that loads a user's client configuration to the server. This feature can be invoked manually via the `COLLECT.CONFIG` process. The user is prompted for a file name and the client configuration will be loaded to `SBXALOGS`, `SBXALOGS_FileName`. The COLLECT.LOGS and automatic collection of logs have been modified to get a copy of the client configuration and store in the `SBXALOGS` sub file with the ID of CLIENT.CONFIG. The CLIENT.CONFIG item contains the following attributes: ▪ 1. Multivalue list of property names. ▪ 2. Multivalue list of property values matched to attribute 1. Attributes 3-9 give the Communications Server connections as matched multivalues: ▪ 3. Name ▪ 4. Server Name ▪ 5. Port ▪ 6. Source Network ▪ 7. Authentication Type ▪ 8. Reliable Session ▪ 9. Security	XUI Browser Client, XUI Rich Client
SBXA-15503	Starting at this release, a new log level, named Important, has been added. The Important log level will always be reported in the logs and cannot be turned on or off in the configuration files.	XUI Rich Client
SBXA-15743	Beginning at this release, after clicking the Connect on the Application List screen, a dialog indicating that the connection attempt is in progress will display.	Installation / Configuration

Key	Release notes	Components
SBXA-15945	Prior to this release, when an input process was defined with the **O** option (Output only), the user was unable to focus on a memo field by clicking on the field. To set focus, users had to press Tab or Enter several times to move to the field from previous field screens. This issue has been resolved.	Form Controls (Radio/ Combo/Text/Label/ Toggle/Memo)
SBXA-15961	Beginning in v6.4.0, non-input fields on XUI screens displayed the error `Failed to display` if the value contained leading zeroes. This problem is fixed in v6.5.0; values with leading zeroes are correctly displayed, and there is no error message.	XUI Rich Client
SBXA-15968	Beginning at this release, SBForms can be placed in another container, such as the Docking Manager window. To place SBForms in another container, create an SB/XA Custom Theme Assembly in a .NET language, such as #C, to implement the ISBFormDisplay and ISBFormContainer interfaces. For detailed instructions on implementing this feature, refer to the `SBXADocumentation.chm` file that accompanies the product.	XUI Browser Client, XUI Rich Client
SBXA-15970	XUI only. Previously, no output was sent to the printer when calling TU.SEND.TO.RAW.PRINTER. This issue has been resolved.	Printing / XPS / PDF / HTML
SBXA-15984	XUI Client only. Previously, the call process slot, Process on MV Disp, on the controlling multivalued field would not be executed if running in the Rich Client or Browser Client.	XUI Rich Client
SBXA-16028	Previously, language translation did not work properly for Type 5 GUI menus. The top-level menu options were not translated. This issue is fixed in v6.5.0.	Internationalization (NLS/Multi Language)
SBXA-16034	In previous versions, an XUI select process failed to display all lines of data when @SB.CONT<30,12> was set to **1**. A setting of **1** for SB.CONT<30,12> should have resulted in all lines being displayed, but it did not. @SB.CONT<30,12> controls whether to download all rows in ListView selections before passing control to the user. This issue is resolved in v6.5.0.	Process Definitions, XUI Rich Client
SBXA-16054	UniVerse Windows only. When executing the TU.EXECUTE program, an error similar to the following occurred: `This command is not available on this platform.` The error may also be seen in the `errlog` file in UniVerse home. This error is now fixed and the correct syntax for Windows is now used.	External Application Integration
SBXA-16078	Previously, various fields and labels on user and group security screens displayed incorrectly. These issues have been resolved.	GUI Forms/Functions

Key	Release notes	Components
SBXA-16091	Starting at this release, users can call a third-party control for domain password changes. The **Password URL** field has been added to the Domain Configuration screen. When a password has expired, a notification dialog displays. Once the dialog is closed, a browser page is launched based on the URL set by the administrator. All connection credentials are then removed and the Initial Login screen will display again. After the user updates their password, login can continue.	XUI Rich Client
SBXA-16098	UNIX only. In previous versions, if a user opened a record in one XUI client and then attempted to open the same record from another XUI client, the Record Locked message contained incorrect information about the port number and user name. This issue is resolved in v6.5.0.	XUI Rich Client
SBXA-16120	Beginning at v6.4.0, the Rich Client would crash if a form should have been cached but did not exist in the form cache. In v6.5.0, if this situation is found, the XUI client form cache will be reset and the form load will be restarted.	XUI Rich Client
SBXA-16122	Previously, the **Size of Form Cache** flag was missing from some versions of the User Security Setup screen. This issue is resolved in v6.5.0.	Admin Tools
SBXA-16124	With an enhancement in v6.5.0, SB/XA features AutoComplete functionality for input fields. You can choose from three built-in AutoComplete styles, which cause the server to return data matches in a drop-down list below the input field as you type data. AutoComplete functionality uses the selection process behind the field's intuitive help; therefore, you can only enable AutoComplete for a field that already has intuitive help defined. To enable AutoComplete for a field, enter the name of one of the three AutoComplete XAML styles in the field definition. The three built-in styles are as follows: ▪ DefaultSBAutoCompleteFieldStyle ▪ SBAutoCompleteField3Style ▪ SBAutoCompleteFieldWrapStyle In addition to the built-in styles, you can create your own AutoComplete styles based on the SB/XA examples. For more information, see "AutoComplete styles" in the *SB/XA Developer's Guide*.	Field Definitions, XAML Styles, XUI Rich Client
SBXA-16149	Starting at this release, in the Communications Server and Rich Client logs, Session ID has been changed to Log Reference. The labels in COLLECT.LOGS and external log viewer tools have also been changed.	XUI Rich Client
SBXA-16166	Progress of the guided upgrade process is recorded in fields 20 and 21 in the DMCONT AccountName*Upgrade. In previous releases, the individual reinstatement of roadblocks did not update the record in DMCONT. This has been resolved in v6.5.0.	Installation / Configuration

Key	Release notes	Components
SBXA-16186	Previously in v6.4.1, when using CustomValidation authentication for UniVerse NLS, the UNIX password was not initially stored when users were connecting for the first time and then changing their password. The user was prompted for the password again before connecting. This issue is resolved.	Installation / Configuration, OS, XUI Rich Client
SBXA-16231	In previous versions, if you were using SB/XA with Rocket Aldon Lifecycle Manager for Rocket U2, the SB/XA `REGEN.TYPE5` process caused an LMU2 prompt for every menu. With an enhancement in v6.5.0, there is only one LMU2 prompt when you run `REGEN.TYPE5`.	Aldon Integration
SBXA-16232	Prior to this release, the last saved task number used was not displayed as the default when recording changes were made. This issue has been resolved.	Aldon Integration
SBXA-16237	In v6.4.1, the client entered a continuous loop if you clicked in the second row of a multivalued table or called a paragraph from that location. This happened when the process options were **S** and **O**. This problem is fixed in v6.5.0.	Process Definitions
SBXA-16250	Beginning in v6.4.0, if you did not enable GUI mode in HK.CONTROL, you were unable to run an input screen in character mode. This problem is fixed in v6.5.0.	Character Screens
SBXA-16256	In v6.4.1, the following issues were introduced in multivalued tables in character mode and GUI: ▪ Character ▫ Moving past the last populated row of data should place the cursor on the controlling field of a new row, but it was placed on the next field after the multivalued table. ▫ If you moved down the controlling field through multiple pages of data and you return to the first page, the data displayed was incorrect. ▪ GUI In a subscreen that only contains a multivalued table without data, if you click on the second row, the screen would hang. These issues have been resolved.	Character Screens, GUI Forms/Functions
SBXA-16268	Previously, when you used SB/XA with Rocket Aldon Lifecycle Manager for Rocket U2, you sometimes were prompted to check out a field definition even if it was already checked out. With a fix in v6.5.0, you no longer receive this unnecessary prompt.	Aldon Integration
SBXA-16269	Previously, when you used SB/XA with Rocket Aldon Lifecycle Manager for Rocket U2, you received an error with LME.SIGNON. This happened when you accessed TCL using `/TCL`, and then ran LME.SIGNON from that prompt. This problem is fixed in v6.5.0.	Aldon Integration

Key	Release notes	Components
SBXA-16270	XUI only. Prior to this release, changes made in SBXA-15900 caused issues with multivalued sets. An input screen with SO options on the process would hang when called by a function key. Also, input screens with no input fields, other than the controlling multivalued field, would hang when the user moved the cursor past the last line. This issue has been resolved.	Multivalue Grids, XUI Rich Client
SBXA-16273	In v6.4.1, if you saved a record on an XUI screen, the key field was cleared, but the record data continued to display. This was caused by a change in the message priority for performance in 6.4.1 and could result in the clear message being executed prior to a set text message. The deferral on the set text was not required and was removed so that the message is sent with the same priority.	XUI Rich Client
SBXA-16283	With an enhancement in v6.5.0, if you use SB/XA with Rocket Aldon Lifecycle Manager for Rocket U2, LMU2 only prompts you to check out an item upon saving it, and only if the item has changed.	Aldon Integration
SBXA-16284	With an enhancement in v6.5.0, if you use SB/XA with Rocket Aldon Lifecycle Manager for Rocket U2, you now are prompted for LMU2 only once when you save a screen in the screen designer.	Aldon Integration
SBXA-16288	Beginning at v6.5.0, an HTML Custom Control Example has been produced to replace the ActiveX browser control used in GUI. The `HTML Custom Control Example` folder can be found in the `Extra` folder of the installation media. A `ReadMe.txt` file contained in the `HTML Custom Control Example` folder provides details of the custom control and instructions on implementation.	XUI Rich Client
SBXA-16290	Beginning at this release, users can now select transport or message security for secure encrypted anonymous communication for all authentication types: ▪ WindowsUserNamePassword ▪ SBXAUserNamePassword ▪ CustomValidation (UniVerse NLS UNIX Only) **Note:** A server certificate is also needed to authenticate the server to the client. This is described in "Chapter 7: Configuring and managing SB/XA Communications Server" in the *SB/XA Getting Started Guide* . When installing the Communications Server on a machine that has already had the Communications Server installed, the previous configuration that does not include the new bindings is used. Delete the existing configuration and restart the Communications Server service to generate a configuration file with the new bindings and modify other settings as required.	XUI Rich Client

Key	Release notes	Components
SBXA-16292	XUI only. Prior to this release, data was not displayed when using XUI client and clicking a record from the tree view intuitive help in the User and Group security screens. This issue is fixed.	XUI Rich Client
SBXA-16301	Beginning in v6.4.0, if you ran `/RELEASE.LICENSES` on a UniData platform, you received a warning message about an unassigned variable. This issue is resolved in v6.5.0.	Admin Tools
SBXA-16307	Prior to this release, when choosing the report only option for `/RELEASE.LICENSES`, the process reported phantom processes as an invalid license. This issue has been resolved.	Admin Tools
SBXA-16308	XUI only. Previously, the SBXAMAPIBridge was using a method to link to the MAPI libraries that is no longer supported for current and future versions of MS Outlook. Starting at v6.5.0, this issue has been resolved and the Microsoft recommended technique has been implemented.	XUI Rich Client
SBXA-16317	XUI only. During the login process of SB/XA, there are a large number of messages being sent to the client to load all of the required data. If a user has a slow connection between the tiers, this can take a significant amount of time to accomplish. Beginning at this release, a new SB.CONTROL value, 34.21, has been added. When this value is set to **1**, users will receive fewer messages at startup. The default setting is for this new feature to be turned off. The feature is only recommended if you have a very slow network, and it is recommended that you perform testing with your application before enabling this feature in a live environment.	XUI Rich Client
SBXA-16322	Previously in v6.4.1 , users may have seen the following message displayed in the Debug window: `DM/_SB.RD.RUN at line 2163 WARNING: UNINITIALIZED VARIABLE USED! Zero Assumed!` This issue has been resolved.	Printing / XPS / PDF / HTML
SBXA-16335	Output to Excel from QRD with a multi language code looks for the record EXCEL.MACROS.xx (xx = Langauge Code) in the `TUDEFN` file. In previous versions, if the record did not exist, the output failed. From v6.5.0 onwards, it will fall back to the default record EXCEL.MACROS if the specific language code record does not exist. This does not mean the transfer will succeed, as you may have invalid keystrokes defined for Excel in a different language.	External Application Integration, Reporting (ARD/RW/ SMART.QUERY)
SBXA-16343	Beginning at this release, the SBinstance Setup for Unicode help message has been changed to the following: `Enter in hex the Unicode value to be translated onto the database code page.`	Installation / Configuration

Key	Release notes	Components
SBXA-16354	Previously, when users had the **Add Fkey Ref to Buttons** flag set to **Yes** in the GUI User Preferences, clicking through multiple dialog boxes would cause the client to crash. This issue has been resolved.	XUI Rich Client
SBXA-16373	Guided Upgrade (UniData only). Prior to this release, missing file checks did not search for DIR VOC type entries. The missing file check could also include an item that was not a file pointer if the first character in field 1 was an F or if the first character of any multivalue in field 1 was an F. DIR pointers have been added to the VOC for missing file checks. This issue has been resolved.	Installation / Configuration

SBXA-16374	XUI only. Prior to this release, the `LOGOFF` process would end the `uvcs` process and exit the XUI client by displaying the following message:
	
	`The SB/XA Application Server runtime has`
	`stopped unexpectedly. The server will be`
	`logged out.`
	
	This message would also be written to the XUI.CLIENT.CRASH log. This could cause a user to investigate the cause of the abnormal exit.
	
	Beginning at this release, the `LOGOFF` process now sends a message to the Communications Sever log before logging off another port. If the port specified is logged in via the same Communications Server, the client for the specified port will be closed and an error will no longer be logged on the Communications Server or Client.
	
	To ensure the port specified is on the same Application Server, the Machine IDs (Server URLs) must also match between the specified port and the session that is running the `LOGOFF` process. The `LOGOFF` process will now also remove the temporary files for the logged off process and release the SB licenses.
		XUI Rich Client

SBXA-16375	Prior to this release, if the application server session stopped unexpectedly, the message presented to the user could not be changed or translated. This message has been added to the DMRESOURCES MessageLog.en-US.restext item with the reference "ApplicationServerStopped", which allows developers to change the message and create translation files for different locales.	XUI Rich Client
SBXA-16380	Beginning at this release, a flag was added to display PID and PPID information for Communications Server logging.	XUI Rich Client
SBXA-16385	In previous versions, you were unable to regain focus on an empty grid using a mouse click. This problem is fixed in v6.5.0.	GUI Forms/Functions, XUI Rich Client

Key	Release notes	Components

SBXA-16402	In previous releases, when using XUI Client to make a connection, an exception would be recorded in the client log file for users with a null SBXA password, which is a requirement for CustomValidation authentication. The exception could also result in a valid error not being reported. A message similar to the following displays:
	
	`{Exception in UO command`
	`thread:System.NullReferenceException:Object`
	`reference not set to an instance of an`
	`object.`
	
	This issue has been resolved.
		Communication Server

SBXA-16404	XUI only. Prior to this release, if the SB group security record became corrupted, users from that group were unable to connect and the session would hang with no meaningful error being returned. Starting at this release, a meaningful error message will display if the user or group record has been corrupted and the session will also no longer hang. This issue has been resolved.	Communications / File Transfer, XUI Rich Client
SBXA-16420	Beginning at 6.5.0, two new major improvements were made to the log file collection, which will significantly improve the ability to support applications using the XUI clients. ▪ Automatic Log File Collection ▪ XUI Crash Report The following are applicable to Automatic Log File Collection: ▪ Maintained via the AUTO.COLLECT.LOGS process. ▪ You can specify various criteria to determine whether logs should be collected for a user when they next connect. ▪ The collection process will also update the table to indicate the logs have been collected. The following are applicable to the XUI Crash Report: ▪ If a user experiences a crash when crash reporting is turned on, the next time the user connects, the logs from the Client, Communications Server, and Application Server will all be loaded onto the application server in a subfile of `SBXALOGS` in the SB+ account. ▪ Enabling crash reporting is handled in User and Group security and can be set to gather full sets of logs, or only the last log for each component. Both of these feature are documented in *Administering SB/XA*.	XUI Rich Client
SBXA-16443	A minor change was made to the Rich Client to allow for more flexible styling of the Outlook menu.	XAML Styles

Key	Release notes	Components
SBXA-16451	Beginning at this release, validation has been added to the SB user ID entered in the Single Sign On screen of user security. If the application you are entering an SB user exists in the same instance as the one being currently connected to, the validation will be that the SB user ID exists. If the application exists in another instance, the validation will be that the value entered contains no special characters or spaces.	Admin Tools
SBXA-16453	Beginning at this release, the Communications Server Monitor, accessed by /LISTMT, was enhanced to display 4 additional columns: ▪ PID - Server Process Id (UO api_slave) ▪ PPID - Server Parent Process Id (UO api_server) ▪ Port - Server Port # ▪ Closing Reason - Reason for Client Disconnect (if available) LISTMT will also show where a client has been closed but the server process is still active. In this instance, LISTMT would show a closing reason such as "CLIENT FAULTY STATE."	Communication Server
SBXA-16461	Previously, if you programmatically populated data in a multivalued grid using input derived fields, the first row of the grid displayed with no data, and @RECORD was not updated. This issue is resolved in v6.5.0.	Multivalue Grids
SBXA-16467	In previous versions, crashes sometimes occurred in specific circumstances in the field definition process. From the Field Definitions screen, if you clicked **F5.Review** and then double-clicked on **Accept** in the subscreen, the XUI client crashed. This problem is fixed in v6.5.0.	XUI Rich Client
SBXA-16468	Prior to this release, the Object Manager and the FormCache could incorrectly report objects. The Object Manager could have objects that the FormCache did not recognize, and the FormCache could report objects that were not present in the Object Manager. This issue has been resolved.	XUI Rich Client
SBXA-16469	UniVerse AIX only. Previously, users would not receive specific UO Server error messages from login failures. Beginning at this release, a more meaningful error message will display in the Client and Communications Server log. **Note:** This enhancement also requires a minimum UniVerse version of 11.2.5.4817.	Communication Server, XUI Rich Client
SBXA-16470	Beginning with v6.4.0, in the XUI clients, a form that was executed, that did not exist in the cache when it was expected to exist, could cause the XUI client to crash. A check has been added to the object manager to prevent the crash. In addition to stopping the crash, additional log file information is captured and the form cache is reset to remove any corruption that has occurred.	XUI Rich Client

Key	Release notes	Components
SBXA-16472	Starting at this release, the Enter key now moves the cursor to the next field in the Login dialog box. Buttons are only activated by the Enter key if they have focus.	XUI Browser Client, XUI Rich Client
SBXA-16483	Starting at 6.5.0, a new pop-up window displays in the Login dialog when the focus is moved to the **Password** field and Caps Lock is turned on. The popup window has been designed to closely resemble the standard Windows Caps Lock Warning dialog from the Microsoft UI guide. This popup is stylable using the "CapsLockWarningPopupStyle" style for the popup window. The content of the popup is created by the "CapsLockWarningContentTemplate" ControlTemplate.	XUI Browser Client, XUI Rich Client
SBXA-16487	Starting at this release, the **Enable OS Version** flag was added. Set this flag to **True** to view .Net Framework or OS versions in the Client, Communications Server, or Application Server logs.	XUI Rich Client
SBXA-16515	Prior to this release, a message similar to the following would display in logs when loading an SBHTML form on top of a tabbed form: ```\nException caught setting cntrl with the\nSBObjectName SBWIN_100_5 to\nnull:System.NullReferenceException:Object\nreference not set to an instance of an\nobject.\n``` This issue has been resolved.	XUI Rich Client
SBXA-16524	Prior to this release, the toolbar menu in the main window would not refresh after the first time a tabbed inquiry screen was called. This issue has been resolved.	XUI Rich Client
SBXA-16531	Previously, some users may have experienced a crash within the SBButton.HandleAccessKey. A check has been added to stop running the button click if no form is present. This issue has been resolved.	XUI Rich Client
SBXA-16577	Prior to this release, forms could be added to a form stack multiple times, which could result in the system stopping or possibly crashing. Now, the functions used to add stacks check for the existence of the base tab and will not add child tabs when the parent is already on the stack. This issue has been fixed.	XUI Rich Client
SBXA-16583	Previously, developers were unable to disable XUI grid paging on individual screens. Entering a value of `0` in the **XUI Grid Paging** field located in SD, Field Definition, Addit. would result in the value for user flags being implemented. Starting at this release, a new value of **-1** has been added to disable XUI grid paging for a grid on an individual screen.	Multivalue Grids, XUI Form Designer
SBXA-16622	Previously, some users may have encountered an issue with logging off a session that had been left for thirty minutes. When the user would attempt to log off, the session would hang. If the user continued to work, they would experience the same issue when they logged off the session. This issue has been resolved.	Installation / Configuration

Key	Release notes	Components
SBXA-16659	UniVerse only. Previously, the `LISTU` command would not display the current connection if running UniVerse 11.3.1. This issue is resolved.	XUI Rich Client
SBXA-16688	UniVerse UNIX only. In v650, the `RELEASE.LICENCES` process has been changed to account for port number changes in UniVerse 11.3.1. For UniVerse versions prior to 11.3, the `RELEASE.LICENCES` process has been removed.	Admin Tools
SBXA-16753	In previous releases, there are instances in SB where a form could be created but never sent to the client. This could result in the form stack being out of sync. This issue has been resolved.	XUI Rich Client
SBXA-16930	A Tech Note has been created providing examples of new XAML style features added in v6.5.0. You will need to login to the Rocket Customer Portal to access the Tech Note. The following examples are available in the Demo 6.5.0 menu that is installed into the SBSUPPORT XAT system: ▪ Intuitive help ▪ Autocomplete ▪ Video Help ▪ Grid features ▪ Embedded HTML custom control The following examples are contained in the installed FlatTheme: ▪ New dialog style ▪ Outlook menu enhancements	XAML Styles

SB/XA v6.4.2 release notes

Build 6231
Release Date: July 2016
These release notes provide information about enhancements and fixes in SB/XA v6.4.2.

Enhancements and fixes in SB/XA v6.4.2

The following issues were addressed in this release:

Key	Release Notes	Component/s
SBXA-14999	With an enhancement in v6.4.2, communication between the XUI clients and the Communications Server is now secure for CustomValidation authentication. Corrected bindings allow Transport and Message security to work as designed. Note that a certificate is required. For information about certificates, see "Chapter 7: Configuring and managing SB/XA Communications Server" in *SB/XA Getting Started*.	XUI Rich Client
SBXA-16165	With an enhancement in v6.4.2, you can choose in group or user security to instruct SB/XA to produce a crash report when the XUI client crashes. On the XUI Flags tab, choose Yes for the Run Crash Report flag. With this setting, if the XUI client crashes, a crash report is created the next time the user logs in after the crash. SB/XA writes each new crash to the end of the DMCONT record "XUI.CLIENT.CRASH" with VMs between fields. Modify this or provide your own version in the global or local process files if you want to report this in a different way. The fields for each crash are as follows: 1. Date time in yyyy-mm-dd hh:mm:ss format 2. Session log id 3. User Identity 4. Computer Name 5. Port number or -1 if not logged in 6. Account 7. System 8. Brief message	Communication Server
SBXA-16225	With an enhancement in v6.4.2, the login process is faster because fewer messages are sent to the client.	XUI Rich Client
SBXA-16279	With an enhancement in v6.4.2, SB/XA produces a full stack trace, current map state, and full object name in logs to better clarify why the object manager fails to find an object.	XUI Rich Client
SBXA-16295	In previous versions, SB.REMOTE.PROCESS - when called from a UO connection - sometimes created a record with a negative port number. This issue is resolved in v6.4.2; records with positive port numbers are created.	Process Definitions
SBXA-16299	Beginning with v6.4.0, Rich Client sometimes crashed when form cache was enabled. This problem is resolved in v6.4.2.	XUI Rich Client

Key	Release Notes	Component/s
SBXA-16302	With an enhancement at v6.4.2, you can set up automatic log file collection for an SB/XA user's client logs, Communications Server logs, and Application Server logs. At the Process Id prompt, enter AUTO.COLLECT.LOGS. You can enter a user name and a date range for which log files will be collected, and specify a directory where the logs will be stored.	Communications / File Transfer

SB/XA v6.4.1 release notes

Build 6141
Release Date: April 2016
These release notes provide information about enhancements and fixes in SB/XA v6.4.1.

Windows 10 certification

All components of SB/XA are certified on Windows 10 as of v6.4.1.

XAML user data

You can expand the definitions of many elements of your application with the XAML User Data field, added at v6.4.1. Available for screens, menus, dialog definitions, code tables, and button bars, XAML user data allows you to pass more data between the server and the client for an application element such as a screen.

You can put almost any kind of data in this field and interpret that data through a .NET custom control, an addition to your XAML style that references this data, or some other Windows Presentation Foundation process.

For more information about XAML user data, see "Expanding definitions with XAML user data" in the Rocket SB/XA *Developer's Guide*.

You also can assign custom intuitive help processes to the elements of your application that use XAML user data. For more information, see the UserData Tab documentation in the SB+ Control Parameters section of *Administering SB/XA*.

New video help features

At v6.4.1, Rocket SB/XA offers integrated, context-sensitive video help built into the client.

You can access the entire SB/XA video documentation and help library from the General Help menu (**General Help → Video Help**). You can also find context-sensitive video help within the tool, and you can add your own video tutorials to your application.

To learn how to use the features, please see Video Help in Rocket SB/XA and Adding Video Help in Rocket SB/XA.

Enhancements and fixes in SB/XA v6.4.1

The following issues were addressed in this release:

Key	Release Notes	Component/s
SBXA-12121	Previously, if you tried to apply a style name to an editable combo box through @VALUE in a paragraph, the style was not applied. This issue is fixed in v6.4.1.	XAML Styles

Key	Release Notes	Component/s
SBXA-12605	You can expand the definitions of many elements of your application with the XAML User Data field, added at v6.4.1. Available for screens, menus, dialog definitions, code tables, and button bars, XAML user data allows you to pass more data between the server and the client for an application element such as a screen. You can put almost any kind of data in this field and interpret that data through a .NET custom control, an addition to your XAML style that references this data, or some other Windows Presentation Foundation process. For more information about XAML user data, see "Expanding definitions with XAML user data" in the Rocket SB/XA Developer's Guide. You also can assign custom intuitive help processes to the elements of your application that use XAML user data. For more information, see the UserData Tab documentation in the SB+ Control Parameters section of *Administering SB/XA*.	XUI Form Designer
SBXA-12760	The number of available connections that can be made simultaneously through the Communications Server can be defined by setting the configuration parameter "maxConcurrentSessions". In previous versions, once the maximum was reached, any subsequent connections timed out after five minutes, and the user was provided with an error message that did not indicate the reason the connection failed. With a fix in v6.4.1, the Communications Server allows one more connection than the defined maximum, and the extra connection is used to provide the following message: "The maximum number of connections to the Communications Server has been reached. Please exit and try again later." This issue is related to SBXA-15298, in which an enhancement was made to provide the extra connection.	Communication Server, XUI Rich Client
SBXA-12917	In previous versions, you were unable to connect with authentication type SBXAUserNamePassword in certain situations. This happened if you were using single sign-on and you had a central configuration file with two or more SB/XA Communications Server records. In this situation, you received multiple prompts for credentials followed by a blank window. This issue is resolved in v6.4.1.	XUI Rich Client
SBXA-14701	In previous versions, if you were using SBXAUsernamePassword authentication and entered an incorrect SB password, you could not attempt to re-enter credentials. This happened if you had a central configuration file with two or more SB/XA Communications Server records. This issue is fixed in v6.4.1.	Installation / Configuration, XUI Rich Client

Key	Release Notes	Component/s
SBXA-15151	With an enhancement in v6.4.1, you can produce cleaner Excel versions of your reports. When you choose Export to Excel for a QRD or RW report, you are prompted whether you want to re-run the report for Excel. If you choose Yes, the report tool removes extra XPS formatting that is not needed in Excel. This process generally produces cleaner Excel reports.	Printing / XPS / PDF / HTML
SBXA-15155	With an enhancement in v6.4.1, when you use CustomValidation authentication (UNIX-UniVerse NLS platform), and the user's OS password has changed, the new password is passed to the OS credential check and then stored in the Single Sign-On credentials for that application on the master server.	Communication Server, Installation / Configuration, Internationalization (NLS/Multi Language)
SBXA-15298	In previous versions, if the maximum number of concurrent sessions for SB/XA Communications Server was reached, the server stopped accepting connections. Users received no warning or error message, and nothing about the event was captured in the logs. With a fix in v6.4.1, SB/XA Communications Server automatically allows one more session beyond the number of sessions specified in the maxConcurrentSessions sessions property of the SB/XA Communications Server configuration file. This extra sessions is used to log an error and report an error to the client when the maximum number of concurrent sessions is reached. If the error occurs while the client is trying to load the application list, a message is displayed and the client must be closed. If the error occurs when trying to connect after the loading of the application list, a normal connection error is reported. This issue is related to SBXA-12760.	Communication Server
SBXA-15479	In previous versions, you could not connect through authentication type SBXAUserNamePassword if your password contained special characters such as "ö". This issue is fixed in v6.4.1. You can use these characters now, but you must set the database code page correctly in SB+ Control Parameters.	Admin Tools
SBXA-15501	In previous versions, the application selection screen did not appear after login under certain circumstances. If you used SBXAUserNamePassword authentication and a central configuration file with two or more Communications Server records, and the SB user had multiple available applications, you were automatically connected to the last active application. This issue is resolved in v6.4.1.	XUI Rich Client
SBXA-15574	With an enhancement in v6.4.1, the default value for maxConcurrentSessions in the SB/XA Communications Server configuration file was increased from 100 to 600. You can increase the value to as many concurrent sessions as you believe your middle tier computer will support.	Communication Server

Key	Release Notes	Component/s
SBXA-15581	At v6.4.1, the SSL libraries for SBClient were updated to use OpenSSL release 1.0.1m.	Communications / File Transfer
SBXA-15614	At v6.4.1, an IF condition was added so that the message "SB.FT.MASTER(149) Master loop exit" only appears in the application server logs if DEBUG logging is activated.	Communications / File Transfer
SBXA-15621	In previous versions, page breaks were not honored when you ran a Query report to XPS Viewer. This happened only on a UniVerse-UNIX platform, and only when the SBSORT/SBLIST option was set to No. This issue is fixed in v6.4.1.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-15641	Previously, if you used the TU.SEND.TO.PRINTER subroutine to send output to the XPS Viewer and then printed the report to a physical printer, your margin settings were not honored. This issue is fixed in v6.4.1.	Printing / XPS / PDF / HTML
SBXA-15691	In v6.4.1, a new flag was added to the Styles tab of SB + Control Parameters. If you set the "Apply XUI Grid paging to 'G' option grids" flag to Yes, XUI Grid Paging is applied to all 'G' option grids. This setting overrides the XUI Grid Paging flag in User Security Setup. For more information, see the Styles tab documentation in the SB+ Control Parameters section of *Administering SB/XA* as well as the general XUI Grid Paging documentation, found in the XUI Flags tab section of the user security setup documentation in *Administering SB/XA*.	XUI Rich Client
SBXA-15695	With an enhancement in v6.4.1, session IDs now are hashed in the creation of log file names, resulting in shorter log file names.	XUI Rich Client
SBXA-15713	With an enhancement in v6.4.1, SB/XA offers integrated, context-sensitive video help. The Field Definitions screen has short video tutorials about four fields on the screen. The tutorials explain how to use each field. Each field with video help is marked by a watermark video camera icon. The videos also can be found on the new VideoHelp menu. More context-sensitive videos are planned for future releases. You can also add your own video tutorials to any field in your application. For more information, see "Video help" in the Rocket SB/XA *Developer's Guide*.	Form Controls (Radio/ Combo/Text/Label/ Toggle/Memo)
SBXA-15830	Previously, level one help for XUI Grid Paging in user security setup was misleading. With a fix in v6.4.1, the help message has been updated to clarify that the setting in the screen definition overrides the setting in user security setup.	GUI Forms/Functions, Multivalue Grids, XUI Rich Client
SBXA-15837	Previously, if you attempted to connect with WindowsUserNamePassword authentication and you did not have certificates set up correctly, you received the uninformative message "The endpoint with authentication mode." With a fix in v6.4.1, you now receive an appropriate and informative message specific to your situation.	Installation / Configuration

Key	Release Notes	Component/s
SBXA-15871	With an enhancement in v6.4.1, the process CLEAN.SBHSTATE now clears the download image cache at C:\Users\user\AppData\Roaming\Rocket Software\SBXA\version_number\APPSBMP. Previously, CLEAN.SBHSTATE cleared the download cache, but not the download image cache. The same functionality is also delivered in the XUI client by clicking Options>Client Configuration>Clear Local Cache.	GUI Forms/Functions, XUI Browser Client, XUI Rich Client
SBXA-15874	Links to video tutorials and help were added to the General Help menu (General Help -> Video Help) at v6.4.1. When you double-click the link for any video, the video is displayed in an SB-encapsulated browser window. Videos are hosted on YouTube, and you need internet connectivity to access the videos.	Documentation, Menus
SBXA-15900	In previous versions, if you sorted an output-only grid in XUI and then navigated through the grid, the client crashed unless the controlling field's options were set to CAIDE. The crash happened because the server was erroneously adding a blank line at the end of the grid. That blank line should only be added for an input grid, and with a fix in v6.4.1, the blank line is no longer added for output grids, and the crash no longer occurs.	Multivalue Grids
SBXA-15902	Previously, if you printed a report with 132 columns from QRD or TU.SEND.TO.PRINTER, the report was not properly condensed or printed correctly. This issue is fixed in v6.4.1. A condensed font is used to display the report correctly. This issue never affected RD reports.	Printing / XPS / PDF / HTML, Reporting (ARD/ RW/SMART.QUERY)
SBXA-15906	In previous versions, if you tried to run a selection for which the FilterSBXListSelectionStyle was defined, the client sometimes crashed if the server was busy. This issue if fixed in v6.4.1.	Intuitive Help, XAML Styles
SBXA-15913	With an enhancement in v6.4.1, when you use the GC process to generate BASIC code for a process, your generated code is added to an LM(e) project. This only applies if you have licensed SB/XA to work with Rocket Aldon Lifecycle Manager.	Aldon Integration
SBXA-15914	With an enhancement in v6.4.1, the Guided Upgrade process excludes remote file pointers when it builds the Missing Files list in the REGEN.EXP step. Excluding these pointers, which include things such as UniVerse NFS file pointers, UniData NFA file pointers, and pointers to files in accounts other then SB and SB.DEFN, can prevent delays in the REGEN.EXP process. You can see which remote file pointers were excluded by clicking **F10-Remote Log**.	Installation / Configuration

Key	Release Notes	Component/s
SBXA-15919	In previous versions, if you used SB/XA with Rocket Aldon Lifecycle Manager, the SB/XA SE editor and LM(e) didn't always properly handle the files that you edited in SE. With a fix in v6.4.1, the editor and LM(e) handle these files correctly if you use the File Characteristics screen (/HK.FILES) to specify which files contain BASIC programs. For more information, see the Rocket SB/XA *Developer's Guide*.	Aldon Integration
SBXA-15925	With an enhancement to the Guided Upgrade process in v6.4.1, on UniData systems, locally and globally cataloged programs are re-cataloged after compilation.	Installation / Configuration
SBXA-15926	In previous versions, the Guided Upgrade would stop building a list of missing files if the FILES record was not present in xxCONTROL . With a fix in v6.4.1, the Guided Upgrade now writes a missing files record and reports it to you.	Installation / Configuration
SBXA-15927	With an enhancement to the Guided Upgrade process at v6.4.1, progress of the program compilation process is displayed in the status bar.	Installation / Configuration
SBXA-15928	Previously, the Guided Upgrade process was incorrectly placing CTLG in the list of program files. This issue is fixed in v6.4.1.	Installation / Configuration
SBXA-15929	With an enhancement to the Guided Upgrade process in v6.4.1, files not found in a system files record are listed by default as belonging to the first system ID in your system ID list. You can assign them to a different system ID before running REGEN.EXP, but you do not need to do so.	Installation / Configuration
SBXA-15930	With an enhancement to the Guided Upgrade process in v6.4.1, changes in upgrade status and REGEN.EXP status are written more frequently to DMCONT AccountName*UPGRADE. These writes allow your upgrade progress to be saved progressively and ensure that you don't have to repeat work if the process aborts unexpectedly.	Installation / Configuration
SBXA-15931	Previously, the Guided Upgrade unnecessarily processed global files multiple times during REGEN.EXP if there were multiple system ID's in the application account. With a fix in v6.4.1, these files now are only processed once, unless different global files are specified for different system ID's.	Installation / Configuration
SBXA-15932	With an enhancement to the Guided Upgrade process at v6.4.1, you can review upgrade logs after the upgrade is complete. Previously, you could review the logs for each step as you went through the process, but the logs were automatically deleted when you completed the upgrade. Logs are no longer automatically deleted. In xxLogs, you can review REGEN.EXP.LOG. In the VOC, you can review COMPILE.ERRORS.LOG, GC.REMOVALS.LOG, FILE.POINTERS.LOG, and REINSTATED.LOG.	Installation / Configuration

Key	Release Notes	Component/s
SBXA-15946	Previously, form cache information was not properly shared between systems even if the "Share Form Positions between Systems" flag was set to Yes. This problem happened if the machine name was null and the application name contained the account name followed by an underscore. This issue is resolved in v6.4.1.	XUI Rich Client
SBXA-16024	With an enhancement in V6.4.1, SB/XA delivers an example style to highlight alternate rows in intuitive help selection screens. MyARListBoxStyle.xaml is in the installation media in Extra -> Xaml -> Themes. You can add this style to an existing theme, specify if for individual intuitive help lists, or add it at the system level or instance level. For more information, see "Styling intuitive help selection forms to highlight alternate rows" in the Rocket SB/XA *Developer's Guide*.	XUI Rich Client

SB/XA v6.4.0 release notes

Build 6091
Release Date: December 2015
These release notes provide information about enhancements and fixes in SB/XA v6.4.0.

Performance improvements in SB/XA v6.4.0

Performance was the primary focus of SB/XA v6.4.0, and substantial performance improvements were made in form load, grid load, report output, switching system IDs, and form deletion. You can learn more about these enhancements by finding their associated Rocketrack numbers in the "Enhancements and fixes in v6.4.0" table that follows. Among the issues specifically related to performance are SBXA-11828, 14902, 15026, 15051, 15136, and 15249.

SB Support Account video demonstration

The SB Support Account, added at v6.4.0, helps you to perform issue replication and diagnose problems in your application, and it also provides you with a suite of performance tests.

You can watch a short video demonstration at www.youtube.com.

Also see SBXA-15840 in the following table for more information.

Enhancements and fixes in SB/XA v6.4.0

The following issues were addressed in this release:

Issue	Description	Components
SBXA-847	In previous versions, in a multilanguage environment, the language flag for a new user was not loaded when you used /VU to switch the user ID. This issue is fixed in v6.4.0.	Internationalization (NLS/Multi Language)
SBXA-11262	In previous versions, if you clicked the scroll arrows to navigate a non-grid multivalued field (G option) on a GUI screen, the second line of the multivalue displayed the wrong data. @CNT was corrupted. This issue is fixed in v6.4.0.	Multivalue Grids

Issue	Description	Components
SBXA-11828	With an enhancement in v6.4.0, you can improve the speed of form load by enabling form cache. With form cache enabled, forms are cached when you open them. If you close a form and then re-open it during the same session, it loads more quickly because it is not being created anew. The cache is cleared when you switch systems or log off, and you can also clear it by running /CLEAN.SBHSTATE. Form cache is now the default setting for SB/XA, but you can disable it in SB+ Control Parameters or in user flags. You also can choose to disallow form cache for specific forms. For more information on form cache, see the documentation for the Enable Form Cache flag in the "XUI Parms tab" section of the SB+ Control Parameters documentation in *Administering SB/XA*.	XUI Rich Client
SBXA-12076	In previous versions, if a program running on SB/XA Application Server closed unexpectedly, SB/XA Rich Client closed. No error message was displayed, and nothing was captured in the logs. With an enhancement in v6.4.0, these types of errors result in an error message being displayed in Rich Client before its exit, and information is recorded in the logs for SB/XA Communications Server and SB/XA Rich Client.	Installation / Configuration
SBXA-12884	Previously, if you translated a menu definition, the translated text was not automatically displayed. You needed to run CLEAN.SBHSTATE or remove and then add again the language code in order for the translated text to be displayed. This issue is resolved in v6.4.0.	Internationalization (NLS/Multi Language), Menus
SBXA-13304	In previous versions, if you tried to edit a Report Writer definition in the XUI client, you received a misleading error message in certain circumstances. If you used the /MP process for a Report Writer process, and then clicked F6, you saw the following error message: XX PROCESS NOT FOUND. This issue is resolved in v6.4.0; the F6 option is no longer presented in the Modify Process screen for Report Writer processes in the XUI clients.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-13323	Beginning in v6.1.0, the appearance of forms was degraded when you decreased their size. This issue is fixed in v6.4.0.	XUI Rich Client
SBXA-13637	In previous versions, running /DEBUG caused the XUI client to crash if the central configuration file had messageFromServerPriority set to Loaded. This issue is fixed in v6.4.0.	XUI Rich Client

Issue	Description	Components
SBXA-13983	Prior to v6.4.0, there was no mechanism in SB to facilitate the use of SB.INPUT subroutine calls and INPUT paragraph statements in a multilanguage environment. An enhancement in v6.4.0 enables the following mechanism for storing and displaying different text based upon the multilanguage in use: To translate text using the [Un] notation to reference messages held in attribute n of xxCONTROL MESSAGE, you must create a new file: xxCONTROL MESSAGE.yy, where xx is the System ID and yy is the language code.	Internationalization (NLS/Multi Language)
SBXA-14088	Previously, if you used a client-side call such as a background process, it sometimes caused the text in an input field to disappear. At v6.4.0, a new command to execute background processes on the server was added to the client, and the server code was adjusted in multiple places to run a background process. The new process does not disturb the current input in progress. The new command is SBCommands.ExecuteSBPlusBackgroundProcess Command It is called from C# client-side code as follows: SBCommands.ExecuteSBPlusBackgroundProcess Command.Execute(processName, SBPlus.Current) where processName is the name of the process to run. You can pass additional parameters to the process by including them in the processName variable, separated by commas. The additional parameters are placed in the @PARAM variable. If none are specified, @PARAM is set to "". Because SB/XA Rich Client and SB/XA Application Server are busy during this call, it should only be used for quick processes. The background process is ignored (either by the client or the Application Server) and not executed under the following circumstances: ▪ SB/XA is not logged into a system ▪ The INIT.SYS process is run to create a new system ▪ Any of the license authorization screens are shown ▪ The security violation screen is shown	XUI Rich Client
SBXA-14170	In previous versions, the L: validation for the length of data being entered in a field erroneously used the LENDP function. With a fix in v6.4.0, the L: validation now uses LEN.	Internationalization (NLS/Multi Language)
SBXA-14223	In previous versions, if you made an entry in the COMMON variable USER.DEBUG, and that entry was not a cataloged program, the client crashed. With an enhancement in v6.4.0, a validation added to USER.DEBUG checks whether or not the entry in the variable is a cataloged subroutine before making the call.	Tech Support, XUI Rich Client

Issue	Description	Components
SBXA-14377	In certain circumstances in previous versions, the Recalc function did not properly update totals on a screen. This happened in GUI only, and only in a non-grid multivalue. If you made changes to the data and used Recalc, the total was not updated correctly. This issue is fixed in v6.4.0.	GUI Forms/Functions
SBXA-14444	Previously, language code functionality was restricted to uppercase language codes. You could enter a lowercase language code in the language table accessed in SB+ Control Parameters, but that lowercase code failed validation when you tried to select it for a user. With an enhancement in v6.4.0, you can use lowercase language codes.	Internationalization (NLS/Multi Language)
SBXA-14556	In previous versions, a problem occurred when you displayed the results of selection processes. When you highlighted a row, the text in the first column was black, whereas the text in other columns was white. The black text was difficult to read. This problem, which occurred only in XUI, is fixed in v6.4.0. The text in the first column is white.	Intuitive Help
SBXA-14727	Previously, the User Debug process failed to log some calls to SB.PROCESS. This issue is fixed in v6.4.0. Because "BEFORE","AFTER" logging calls were moved to within SB.PROCESS, all calls to SB.PROCESS now are logged.	Installation / Configuration
SBXA-14806	In some circumstances in previous versions, users inadvertently started simultaneous sessions of SB/XA Rich Client. This happened when a user was set up for autologin with one application defined. If you clicked **Connect** on the Connect to Application screen while the client was already in the process of autologin, two sessions were started. After 10 minutes, the second session timed out, and this caused the client to shut down. This issue is resolved in v6.4.0; the Connect button is disabled during autologin.	XUI Rich Client
SBXA-14833	With an enhancement in v6.4.0, you can opt to share form position, size, and zoom between systems. On the XUI Parms tab of SB Control Parameters, set the value in the new **Share Form Positions between Systems** flag to Yes to enable this functionality. When enabled, the flag means that if you change the size, position, or zoom of a form in one system, those changes apply when you close the form and subsequently open it again in another system. The default setting for this flag is No.	XUI Rich Client

Issue	Description	Components
SBXA-14879	Several improvements were made to the Guided Upgrade process at v6.4.0. Introduced in v6.3.0, Guided Upgrade helps you upgrade from v5.x to v6.x by prompting you to take all of the necessary steps to avoid upgrade problems. In v6.4.0, several unnecessary screens were removed as redundant and processes were automated. A new screen was added, allowing you to easily identify and add missing files to their appropriate system files lists during the REGEN.EXP step. For more information, see "Guided Upgrade" in *SB/XA Getting Started*.	Installation / Configuration
SBXA-14902	With an enhancement in v6.4.0, you can improve the loading speed of forms with grids. Using the screen designer, you can enable XUI Grid Paging for an individual grid by selecting the grid field and clicking F5 -> F6.Addit to find the new **XUI Grid Paging** flag. Enter a value greater than 0, for instance 25. Entering 25 causes SB/XA to download only the first 25 rows of the grid when you open the screen containing that grid. The next 25 rows of data are downloaded when you navigate toward the end of the first 25 rows. You also can enable grid paging for every grid with a flag in user security setup. For more information, see the XUI Grid Paging documentation in "The XUI Flags tab" in the *Administering SB/XA* manual.	XUI Rich Client
SBXA-14907	In previous versions, if you removed a Language Code in User Flags, the Outlook menu was not updated to reflect the change. This issue, which occurred only in XUI, is fixed in v6.4.0.	Internationalization (NLS/Multi Language)
SBXA-14947	Setting the SB.CONTROL record attribute <15, 4> to 1 limits mouse click functionality and inhibits F2 functionality in a dependent multivalue. Previously, this prevented you from doing some things such as editing a field's process on the F7 subscreen in the screen designer. But with an enhancement in v6.4.0, tools input screens ignore the flag so that you can use the F2 key in subscreens.	GUI Forms/Functions
SBXA-14963	In previous versions, if you set the **Automatically delete log files** flag to True in the SB/XA Communications Server configuration, problems sometimes occurred. The process sometimes attempted to delete a log that was currently in use, but such a deletion is not possible. In these situations, a non-specific error message was displayed, and the user was unable to log into the XUI client again until SB/XA Communications Server was restarted. This issue is resolved in v6.4.0.	Communication Server, XUI Rich Client
SBXA-14964	In previous versions, using a style to place a button in a grid could result in a client crash. This issue is resolved by a change at v6.4.0.	XUI Rich Client

Issue	Description	Components
SBXA-14965	Beginning in v6.3.0, in XUI only, the scroll arrow buttons for a Memo field did not work in some circumstances. The problem happened only with output-only Memo fields, or with Memo fields on output-only screens. This issue is fixed in v6.4.0.	XUI Form Designer
SBXA-14974	In previous versions, the RELEASE.LICENSES process sometimes removed user sessions incorrectly, depending upon the OS date format. This issue is fixed in v6.4.0.	Installation / Configuration
SBXA-14992	Previously, some information messages were captured in logs even if you configured your system to log only errors. This issue is fixed in v6.4.0.	XUI Rich Client
SBXA-15026	You can increase the speed of some SYS calls with an enhancement in v6.4.0. Using new Suppress options 5, 6, and 7 with your SYS call, you can prevent refreshing of the top-level menu during system changes, thus increasing the speed of the system switch. For more information, see "SYS,newsysid,Supr" in the *SB/XA Application Server Reference Manual*.	XUI Rich Client
SBXA-15049	At v6.4.0, a date check was added for form position cache to reduce the number of uploads to the form position cache. A date stamp is generated by the server and transferred to the client. When a new position is sent to the server, the date stamp is returned to the client to keep it up to date. The client position cache is only reloaded on login, and only if the date has changed, or when the client cache is cleared. This also applies only when there are more than 500 form positions cached, because upload speed is fast when there are fewer positions cached.	XUI Rich Client
SBXA-15051	At v6.4.0, several optimizations were made to improve the performance of form position cache: ▪ A redundant write to the local file index was removed, and this change improves the speed of adding a file to the index. ▪ The local file index now is pre-built for forms to be updated in the form position cache. ▪ The unpacking of forms was optimized to save memory allocations for SBString, and this optimization improves speed.	XUI Rich Client
SBXA-15057	In previous versions, if you clicked F5.View Jobs on the List Jobs screen, the report was not displayed. This issue is fixed in v6.4.0, but only in character mode.	SBClient
SBXA-15064	Previously, the SBClientLogsForm was private and therefore could not be custom-styled with XAML. At v6.4.0, the form is public and can be styled.	XAML Styles
SBXA-15099	With an enhancement in v6.4.0, when LM(e) is called to check out multiple items, the checkouts are combined into one call. You are now only prompted once for checkouts.	External Application Integration

Issue	Description	Components
SBXA-15136	With an enhancement in v6.4.0, you can increase the speed of reports download by sending multiple pages to the client at once. Use the new XPS Download Pages flag to determine the number of pages downloaded at a time in Report Definition reports and with TU.SEND.TO.PRINTER. For more information, see the XPS Download Pages documentation in "XUI Parms tab" in the *Administering SB/XA* manual.	Printing / XPS / PDF / HTML
SBXA-15145	In previous versions, changes to an SB user's password were not properly logged in the Audit of Users Amended report in all instances. This problem is fixed in v6.4.0; password changes are properly logged.	Admin Tools
SBXA-15185	In previous versions, you sometimes received a warning about an unassigned variable, particularly if you ran the SE editor followed by /TCL, and also in SB.INFO. This problem is fixed in v6.4.0.	XUI Rich Client
SBXA-15197	Navigation of tabbed forms was an area identified by customers as not performing as well in the XUI clients as it does in SBClient GUI. This difference in performance has been removed due to the implementation of form caching in the XUI clients and improvements made in the XUI object manager.	XUI Rich Client
SBXA-15201	An optimization was made at v6.4.0 that increases the performance of pre-processing of larger reports that contain XML in TU.SEND.TO.PRINTER before they are sent to the XPS viewer. This optimization is significant only on a UniVerse-no NLS platform.	Printing / XPS / PDF / HTML
SBXA-15249	An optimization at v6.4.0 improves the speed of form deletion. The object manager now removes the items so that new items with the same name can be created, but it does not dispose of them immediately. Instead it queues them for later disposal and disposes of them a few at a time when the UI is not busy. This means that when you close a form, it is queued for deletion, but you do not have to wait for it to be deleted.	XUI Rich Client
SBXA-15321	Previously, if you used the SB Security API to create a new user record, and the user record ID was the same as an existing group record ID, you received the following misleading error message: "RECORD ALREADY EXISTS." This issue is resolved in v6.4.0.	Admin Tools, External Application Integration
SBXA-15356	Previously, if you attempted to make an update through the security API, and the update failed a validation, the update did not take place. An update to the audit log file did take place, however, when the update should not have occurred. This issue is resolved in v6.4.0.	Admin Tools

Issue	Description	Components
SBXA-15357	Four enhancements were made to the LogViewer at v6.4.0: 1. A new text filter allows you to display only lines of interest. 2. New Copy to clipboard functionality allows you to transfer data from LogViewer to the clipboard with tab-separated columns so that it can be used in further analysis in another program. 3. A new Timing column shows the time between messages. 4. A new option allows you to display only time, and not date.	XUI Rich Client
SBXA-15384	In versions 6.3.0 through 6.3.3, a missing TUINSERT file pointer caused problems in the Guided Upgrade process. This pointer has been added in v6.4.0.	Installation / Configuration
SBXA-15386	You can easily add missing files to the system file list in the Guided Upgrade process with an enhancement in v6.4.0. On the REGEN.EXP tab in the Application Upgrade screen, when you click F5.Missing Files, the Missing Files screen is displayed. It allows you to enter the appropriate system name for files listed as not existing in any of the files lists for the current account. For more information, see "Guided Upgrade" in the *SB/XA Getting Started* guide.	Installation / Configuration
SBXA-15387	At v6.4.0, page indicators were added for Guided Upgrade screens with multivalue tables in character mode. These page indicators help to make it clear when there are additional pages of data.	Installation / Configuration
SBXA-15388	In versions 6.3.0 through 6.3.3, the Guided Upgrade process sometimes crashed when specific subroutines were removed to facilitate the upgrade. The upgrade process automatically removed subroutines to call before or after SB.INPUT, but that caused a crash because the flag indicating that a subroutine call should be made was not also changed as part of the Guided Upgrade. This issue is fixed in v6.4.0.	Installation / Configuration
SBXA-15389	In v6.3.0 through 6.3.3, the Guided Upgrade process failed because of a missing SAPROGS pointer. This issue is fixed in v6.4.0. The pointer is created when the Guided Upgrade process starts.	Installation / Configuration
SBXA-15422	In previous versions, SB.REMOTE.PROCESS returned the following message: RECORD CORRUPT! CONTACT SYSTEM ADMINISTRATOR. This problem is fixed in v6.4.0.	Process Definitions
SBXA-15439	In previous versions, the XUI client showed toggles in grid rows as being selected when they actually were not selected. This problem is fixed in v6.4.0.	Multivalue Grids
SBXA-15472	With an enhancement in v6.4.0, the Guided Upgrade process now generates a list of program files that may contain programs to be recompiled and populates a table on the Compile tab with that list.	Installation / Configuration

Issue	Description	Components
SBXA-15473	An enhancement to the Guided Upgrade process in v6.4.0 detects if Rocket Web Development Environment is enabled in the SB/XA account that you are upgrading. It it is, the Guided Upgrade prompts you with instructions for what you must do to successfully complete the upgrade.	Installation / Configuration
SBXA-15505	In previous versions, if you created a screen in character mode and then tried to open it in XUI for the first time with no existing .GUI or .XUI screen definition, you received a misleading error message, and the session crashed. This problem is fixed in v6.4.0.	Character Screens, GUI Forms/Functions, XUI Rich Client
SBXA-15602	In versions 6.3.0 through 6.3.3, when @RECORD was populated with data and then @REFRESH = -2 was executed to display the data in a grid, only the first line of data was displayed. This issue is resolved in v6.4.0.	XUI Rich Client
SBXA-15625	In v6.3.3, if you had no input fields on a screen after a field defined as the 'R'ead Step, you received an error message. This issue is fixed in v6.4.0.	Character Screens, GUI Forms/Functions, XUI Rich Client
SBXA-15768	In previous versions, processes that used an unnamed COMMON variable resulted in a COMMON size mismatch error. This problem is fixed in v6.4.0.	Aldon Integration
SBXA-15840	The SB Support Account, evolved from Rocket U2 Support's Issue Replication System, was added for general availability in v6.4.0. The SB Support Account helps you to solve problems in your applications in two key ways: it automates much of the work in the development and packaging of a test case, and it also automates the work of comparing crucial parameter files between different installations of both SB+ and SBXA. The SB Support Account also gives you a series of utilities to test the performance of various elements of your application. You also can use miscellaneous utilities in the SB Support Account to overcome common challenges in maintaining and upgrading your application. For a brief tutorial video, go to www.youtube.com. For extensive documentation of these features, see "Appendix H: SB Support Account" in *Administering SB/XA*.	Installation / Configuration

SB/XA v6.3.3 release notes

Build 5326
Release Date: July 2015
These release notes provide information about enhancements and fixes in SB/XA v6.3.3.

Enhancements and fixes in SB/XA v6.3.3

The following issues were addressed in this release:

Issue Number	Description	Component
SBXA-747	With an enhancement in v6.3.3, you can control the number of records you want to display when you run a trial report. A new field, Sample size, was added to the Report Parameters screen. You can enter 'A' for Ask at runtime, or specify a number. For more information, see "Setting report parameters" in the SB/XA Developer's Guide.	Process Definitions
SBXA-840	In previous versions, if you enabled multilanguage and set a language code in user flags, toggles no longer worked correctly. This issue, which affected GUI and XUI, is fixed in v6.3.3.	GUI Forms/Functions
SBXA-3211	Previously, if you used the User Security Setup screen to delete the users DEMO and HELP, those users still appeared in the ROOT tree. This issue is fixed in v6.3.3.	Admin Tools
SBXA-3219	In previous versions, a select process could be passed a multivalued array that would then be used as the selection list. If text had been entered prior to invoking the selection process, it would automatically be used to filter the values in the list. This functionality worked in CHAR but was not being implemented in GUI and XUI environments. This issue is fixed in v6.3.3.	GUI Forms/Functions, Intuitive Help, XUI Form Designer
SBXA-5098	In previous versions, when using the security API, if you defined a keyboard timeout for a group but then defined a different keyboard timeout for a user in that group, a misleading error message about "invalid input" was returned to the user. With a fix in v6.3.3, a more meaningful error message is displayed in this situation.	Admin Tools
SBXA-8078	In previous versions, auditing of user record creation did not work completely in some circumstances. This issue is resolved in v6.3.3.	Admin Tools
SBXA-8740	A new report variable, @RV.TOTALS.ONLY, was added at v6.3.3. This gives the developer the ability access the choice made by the user to the runtime question "Totals Only Report (Y/N/G)" . For more information, see "Special report variables in report definitions" in the SB/XA Application Server Reference Manual, as well as "Report Writer definitions" in the SB/XA Developer's Guide.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-9826	An enhancement in v6.3.3 allows you to close Rich Client without the client first displaying the Connect to Application dialog, as has been the default behavior. A new flag, Show Application List on exit, was added to the XUI Parms tab of SB Control Parameters to control this behavior. For more information, see "SB+ Control Parameters" in Administering SB/XA.	XUI Rich Client
SBXA-10135	In v6.3.3, two terms were changed in SB/XA licensing screens in order to be consistent with standard Rocket U2 terminology. "Reference Code" was changed to "Configuration Code." "License Number" was changed to "Authorization Key."	Installation / Configuration

Issue Number	Description	Component
SBXA-10587	In previous versions, the User Security Setup screen inappropriately allowed you to override the Application Hierarchy Mode flag. If the Application Hierarchy Mode flag was set to Hierarchy no ripple or Hierarchy with ripple, users should have been able to access only those applications available to their groups. But previously, in User Security Setup, you could access applications that were restricted for the group by using the intuitive help key in the Valid applications field. With a fix in v6.3.3, if Application Hierarchy Mode is enabled, the intuitive help selection list in User Security Setup and STANDALONE.SINGLE.SIGNON will present only those applications available to the group.	Installation / Configuration
SBXA-10648	At v6.3.3, the Physical Printer Name field was removed from the XPS Parameters screen, and the W option was removed from the intuitive help on the Disp Aux Sel Screen field. The W option is not supported in XPS Viewer.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-11744	Previously, when a session failed to connect to the application, the message returned was not specific in indicating what step in the connection failed and what parameters were used during the failed connection. With an enhancement in v6.3.3, an improved error message clarifies that it is the connection from SB/XA Communications Server to SB/XA Application Server that is failing. The message also provides details of the account, server address, and user that were used to attempt the connection.	Installation / Configuration
SBXA-11748	In previous versions, a misleading error message was returned if you attempted to configure SB/XA Communications Server without all of the correct permissions and settings. The previous message included the line "Please log in as Windows Administrator," but that statement was sometimes not an accurate reflection of the problem. With a fix in v6.3.3, a new error message includes the following lines: "Please login as Windows Administrator while connected to the Communication Server using Authentication Type "Windows". If you still get this message, you may also need to temporarily turn off "User Account Control" in the Windows Control Panel.	Installation / Configuration
SBXA-12217	Beginning in v6.2.1, the GUI client crashed and the XUI client would hang in certain multilanguage situations. This happened when you had input screens with multiple tabbed screens and multivalue grids set to display only one line. The GUI client crashed and displayed the following error message: Couldn't craete scrollbarclass object .....object name already in use. 405 SBWIN_96_2*fieldname. The XUI client did not crash, but the process would hang. This issue is resolved in v6.3.3.	Internationalization (NLS/Multi Language)

Issue Number	Description	Component
SBXA-12693	On some platforms in previous versions, on the XUI Parms tab of the SB Control Parameters screen, if you pressed the intuitive help key on the "Reposition or resize buttons in SD" field and then selected an entry from the list, an error message was displayed. This issue is resolved in v6.3.3.	Admin Tools
SBXA-12867	In previous versions, if you closed the navigation pane in the client window, some forms subsequently were incorrectly displayed outside the client window. This issue is fixed in v6.3.3.	Menus, XUI Rich Client
SBXA-12954	Previously, the XUI client sometimes crashed on exit. This occurred specifically if the exit process included a confirmation dialog with buttons, and the buttons had images on them. This issue is fixed in v6.3.3.	XUI Rich Client
SBXA-13092	In previous versions, users were unable to log into Rich Client under very specific circumstances. The problem occurred under the following circumstances: ▪ The system used a central configuration file ▪ The system used SBXAUserNamePassword authentication ▪ The user was using signle sign-on ▪ The user had a default application specified Under these circumstances, when the user attempted to log into Rich Client, the connection to the application failed. This issue is resolved in v6.3.3.	XUI Rich Client
SBXA-13098	In previous versions, the XUI client crashed if groups and users were set up in a specific way. This happened you created a user and a group that had the same name, and the group was a child of a group other than ROOT. Subsequently if you pressed the intuitive help key on the User Id Code field in User Security Setup, an incorrectly created tree was displayed, and the XUI client crashed. The incorrect tree showed the new group twice, as being a child of two groups. With a fix in v6.3.3, the duplicate is not added to the tree, an error is logged, and the crash is averted.	XUI Rich Client
SBXA-13180	In previous versions, SB/XA Communications Server in time stopped accepting connections, because its max number of concurrent connections was reached inadvertently for various reasons. Several related fixes in v6.3.3 resolve this issue.	Communication Server
SBXA-13181	In previous versions, intuitive help selection behaved differently when you searched for screen definitions as opposed to intuitive help selections for other types of items. Only in screen definition searches were you required to enter a] after search text. With a fix in v6.3.3, the intuitive help selection for screen definitions now behaves the same as in other selections.	Intuitive Help

Issue Number	Description	Component
SBXA-13349	An enhancement in v6.3.3 allows easier styling of Memo fields in XUI. Previously, you could not set a default style for Memo fields. With this enhancement, you can use a new Memo field on three different screens to set default styles for Memo fields in SB Control Parameters, Styles tab (See Administering SB/XA), at the system level (HK.CONTROL, XUI Styles tab; see SB/XA Developer's Guide), and in user flags. The enhancement also includes new predefined styles for Memo fields, similar to existing predefined styles for other types of fields. See SB/XA Developer's Guide, "XAML Styles and Themes."	XUI Rich Client
SBXA-13357	In previous versions in the XUI client, on a UniData-Unix platform, fields on the Select Media screen were displayed improperly. This issue is fixed in v6.3.3.	XUI Rich Client
SBXA-13412	In previous versions, any entry in the Option for Remote Process field on the Define Dialog Box screen (/DIALOG.DEFN) resulted in the following error message: Non-numeric found when numeric required. This issue is resolved in v6.3.3.	Process Definitions
SBXA-13438	With an enhancement in v6.3.3, the SB.CONTROL record in DMCONT now is locked while you run the SB.PARMS process.	GUI Forms/Functions, XUI Rich Client
SBXA-13481	In previous versions, when utilizing the multilanguage features of SB/XA, combo boxes in code table definitions did not function correctly in some circumstances. This happened when you had two values, and one value used as an input code the same value that the other used as an internal code. In that case, when you selected a value, the wrong value was stored in the record. This issue is resolved in v6.3.3.	Form Controls (Radio/ Combo/Text/Label/ Toggle/Memo), GUI Forms/Functions, XUI Rich Client
SBXA-13483	Previously, if you changed the size and screen position of an HTML output window from a Report Writer process, those changes did not apply the next time the process was run. At v6.3.3, a key/checksum was added so that the changed size and position of the output window is loaded and saved in the same way that other SB forms are saved. Now, if you alter the size and position of the Report Writer process HTML output window, those changes will remain in effect the next time the process is run.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-13580	In versions 6.2.5 and 6.2.6, the XUI client did not respect your choices of colors for toggle objects, but instead displayed the toggles with the default colors. This issue is resolved in v6.3.3; the client now correctly displays the specified colors.	Form Controls (Radio/ Combo/Text/Label/ Toggle/Memo), GUI Forms/Functions, XUI Rich Client

Issue Number	Description	Component
SBXA-13607	Previously, changes in network configuration (such as the address for SB/XA Communications Server changing) caused client connections to fail. You needed to restart SB/XA Communications Server before successfully making a client connection. With an enhancement in v6.3.3, SB/XA Communications Server can detect such network changes and restart a socket listener, making it unnecessary to restart the server.	Communication Server
SBXA-13614	In previous versions, if you clicked on a numeric field with a conversion code, the contents of the field were not selected and highlighted as they should have been. This issue is resolved in v6.3.3.	XUI Rich Client
SBXA-13623	Previously, if you had a code table defined with a toggle, you received an error message when you used Enter to move past that field. This happened only in XUI. This issue is resolved in v6.3.3.	XUI Rich Client
SBXA-13968	In GUI mode, you can set multiple property values in a grid with one SETATTR function call, using the following syntax: ERR = SETATTR("CtrlMVFld","ColHeadings","Col1,Col2,Col3, Col4,Col5,Col6,Col7,Col8,Col9") ERR = SETATTR("CtrlMVFld","ColWidths","10,20,30, 40,50,1,100,1,200") Previously, this syntax did not work in the XUI clients. With a fix in v6.3.3, you can use the same syntax for both client connection types.	XUI Rich Client
SBXA-14021	Previously, in some circumstances in GUI only, subscreens could move on your monitor when you called them repeatedly. They could eventually move out of view and become inaccessible. This happened only in the following circumstances: ▪ In the System Control Record, GUI Control tab, Default GUI Toolbar points to a valid toolbar. ▪ In User flags, GUI Prefs, Center GUI Screens is set to 'N'. ▪ In User flags, GUI Prefs, Self-contained Forms is set to 'N'. This issue is resolved in v6.3.3.	GUI Forms/Functions, SBClient
SBXA-14101	In previous versions, if you inserted a blank line in a multivalue grid in XUI and then used the arrow keys to move away from that blank line, the blank line remained in the grid. This behavior differed from GUI, in which moving away from the blank line resulted in the blank line being deleted. With a fix in v6.3.3, the XUI client now behaves like GUI, and the blank line is deleted.	Multivalue Grids, XUI Rich Client

Issue Number	Description	Component
SBXA-14103	In previous versions, Autologin and Single Sign-On sometimes did not work correctly. If you enabled Autologin and set Auto OS to 'N' for a user, that user should have been required to enter his or her OS user ID and password on login. Instead, the user ID and password were stored, and the user did not have to enter them. This issue is fixed in v6.3.3.	Installation / Configuration
SBXA-14117	In v6.3.3, SBClient now uses the 1.0.1m SSL libraries, which address SSL v3 vulnerabilities related to the POODLE bug.	Installation / Configuration/ SBClient
SBXA-14126	In v6.3.0, if you sorted a column in a multivalue grid in GUI, @CNT was not maintained correctly. This prevented accurate drill-downs. This issue is fixed in v6.3.3.	Multivalue Grids
SBXA-14145	Version 6.3.3 provides two new processes for deleting SB/XA Application Server log files. You can enter CLEAR.ALL.SERVER.LOGS at the Process Id prompt to delete all SB/XA Application Server log files. Alternatively, you can enter CLEAR.OLD.SERVER.LOGS. When you enter CLEAR.OLD.SERVER.LOGS, you are prompted to enter the number of days' worth of logs that you want to keep, and all older logs are deleted. For more information about logs and debugging, see Administering SB/XA.	Admin Tools
SBXA-14176	In previous versions, a screen narrator for Windows 7 did not perform as well narrating XUI as it did the GUI client. This issue is resolved in v6.3.3; screen narration works as well for XUI as it does for GUI.	XUI Rich Client
SBXA-14303	In previous versions, SBClient did not work properly when you used a second monitor to extend your desktop. If you moved an SBClient screen to the second monitor, buttons and toolbar items did not respond when you clicked them. This issue is resolved in v6.3.3.	GUI Forms/Functions/ SBClient
SBXA-14386	Previously, if you attempted to copy an XUI-only screen from the XUI Screen Designer, the copy sometimes failed because the Screen Designer was attempting to copy a non-existent GUI or CHAR version of the XUI screen with which you were working. If you clicked F2.Accept in the Copy Screen Definition window, no copy was made, but you did not see an error message. With a fix in v6.3.3, the Screen To Copy field in the Copy Screen Definition window now is automatically populated with the .XD version of the screen with which you are working, making it less likely that you attempt to copy a non-existent GUI or CHAR version of the screen.	XUI Form Designer

Issue Number	Description	Component
SBXA-14409	Rocket SB/XA works with Rocket Aldon LM(e), but only if you license SB/XA for use with LM(e). If you don't have the LM(e) version of SB/XA and you try to run an LM(e) feature from SB/XA, SB/XA returns the following message: "LM(e) requires a licensed version of SB/XA." In versions 6.3.0 through 6.3.2, however, the message was not displayed if you ran LME.CONFIG or LME.INIT. This issue is resolved in v6.3.3; if you attempt to run LME.CONFIG or LME.INIT, you see the appropriate error message.	External Application Integration, SBClient
SBXA-14543	In v6.3.0, the HTML Parameters screen had incorrectly displayed text and buttons. This issue is fixed in v6.3.3.	XUI Rich Client
SBXA-14554	In previous versions, in CHAR mode only, HEADING statements in Selection Definitions were ignored. This issue is resolved in v6.3.3.	Intuitive Help
SBXA-14586	In v6.3.0, in XUI only, G.USER.DATA was not populated. This prevented checking of screen number in a series of tabbed screens. This issue is resolved in v6.3.3.	XUI Rich Client
SBXA-14599	In v6.3.0, if you selected GUI as an output destination in a QRD report, you received an error, or the client crashed. This happened only in GUI mode. This issue is resolved in v6.3.3.	Reporting (ARD/RW/ SMART.QUERY)
SBXA-14618	In previous versions, if you ran multiple copies of Rich Client and multiple Communications Servers, the clients sometimes did not connect to the correct server. This issue is resolved in v6.3.3.	Installation / Configuration, XUI Rich Client
SBXA-14674	In previous versions, if a combo box was part of the key in an output screen, you were unable to change the value of the combo box. This issue is resolved in v6.3.3.	Form Controls (Radio/ Combo/Text/Label/ Toggle/Memo)
SBXA-14675	Previously, when you ran the COLLECT.LOGS process, a log collection directory was created in the account in which you were working. With an enhancement in v6.3.3, every installation of SB/XA has an SBXALOGS file in the SB+ account, and pointers are created from other accounts to this file. When you run COLLECT.LOGS, the process creates and uses sub-directories for each log collection within the SBXALOGS file in the SB+ account.	Admin Tools
SBXA-14737	In previous versions, if you created and edited a screen in GUI, and then deleted it, the .XUI and .XAML records should have been deleted, but they were not. This issue is resolved in v6.3.3.	GUI Forms/Functions
SBXA-14757	In previous versions, if you had tabbed screens that included a '.' in the name, the first time you called the screen from an output process, you received an error telling you that the screen did not exist. This happened only in XUI. This issue is fixed in v6.3.3.	XUI Form Designer
SBXA-14791	In previous versions, on an NLS platform only, function keys that were designed to change the focus from one field on a screen to another did not work. This issue is fixed in v6.3.3.	Character Screens, Internationalization (NLS/Multi Language), XUI Rich Client

Issue Number	Description	Component
SBXA-14805	Some XUI client disconnects are caused by problems that occur with SB/XA Communications Server when a PC hibernates or sleeps, or the client loses its connection for some other reason such as switching networks. Previously, the reasons for these disconnects were sometimes difficult to diagnose. With an enhancement in v6.3.3, the client attempts to connect to SB/XA Communications Server when a channel fault occurs, and it reports the results of this test in the Channel Fault dialog box. The client also writes more specific information about these types of disconnects to the client log files.	XUI Rich Client
SBXA-14826	When you resize and reposition forms on your desktop, those new sizes and positions are supposed to be stored and recalled the next time you open the form. But in previous versions, changing the screen definition caused your new size and position to be discarded. This happened only in XUI. This issue is fixed in v6.3.3; size and position are honored after a change to screen definition, unless the change to the definition requires a change to form size.	XUI Rich Client
SBXA-14827	In previous versions, if you changed the system ID to an invalid entry in SBSYSMENU, you received no warning. But subsequently when you next logged in, the client crashed due to the invalid entry. With a fix in v6.3.3, a new validation immediately warns you if you make an invalid entry.	Menus
SBXA-14835	At v6.3.3, Transport Layer Security (TLS) was added to the list of protocols for secure host connections with SBClient. In the Edit SSL Property List window, you can select TLS v1.1 and 1.2, as well as the existing SSL v3 and TLS v1.0. For more information, see "Configuring the SSL Property List" in Administering SB/XA.	SBClient
SBXA-14858	In previous versions, if you changed the appearance of a grid with SETATTR, performance suffered in XUI. This issue is resolved in v6.3.3, and XUI grid performance is superior to GUI in these circumstances.	Multivalue Grids, XUI Rich Client
SBXA-14864	At v6.3.3, SSL libraries for SBClient were updated to 1.0.1m to address the FREAK vulnerability.	SBClient
SBXA-14878	In previous versions, in XUI mode on a Windows 8 platform, if you made changes to orientation or media size in XPS Viewer, the changes were applied only to the first page. This issue is resolved in v6.3.3.	Printing / XPS / PDF / HTML

SB/XA v6.3.2 release notes

Build 5210
Release Date: March 2015
These release notes provide information about enhancements and fixes in SB/XA v6.3.2.

Enhancements and fixes in SB/XA v6.3.2

The following issues were addressed in this release:

> **Note:** The v6.3.0 release notes and documentation state that the XUI clients require a 64–bit machine, as this is the recommended platform. However, as the .NET Framework v4.5.1 is supported on a Windows 7 32–bit machine, the XUI clients should function on a Windows 7 32–bit machine.

Key	Description	Component/s
SBXA-12368	In previous versions, if a user was created with a null password, the user was unable to log in using the XUI clients until he or she had first logged in using a telnet connection. This is resolved in both user security setup and the security API in v6.3.2.	Admin Tools, XUI Rich Client
SBXA-13068	Previously, using the arrow keys to navigate the calendar did not change the month when moving from the last day of one month to the first day of the next month, or from the first day of one month to the last day of the previous month. This occurred only in XUI. This issue is fixed in v6.3.2.	XUI Rich Client
SBXA-14104	You can control the format of dates displayed in an SB/XA NLS application by setting the locale on the user's Single Sign On setup information. Previously, however, the date format used in the intuitive help calendar and DATE process was controlled by the Windows locale setting. This was changed to use Single Sign On information in v6.3.2.	Internationalization (NLS/Multi Language)
SBXA-14455	When you use the authentication method CustomValidation, which is only supported for UniVerse NLS on a Unix system, the user is not prompted for an SB/XA password. This authentication method, introduced at v6.3.0, does not use SB/XA passwords.	XUI Rich Client
SBXA-14511	Under certain circumstances in previous versions, it was possible for the focus on your subscreen to be lost and put on your main screen. This could hang your client if you were unable to see any part of the subscreen because it was behind the main screen. This occurred only on a UniVerse NLS platform. This issue is fixed in v6.3.2.	XUI Rich Client
SBXA-14577	Previously, only on UniVerse NLS in XUI, if you set @RTN.FLAG to a field name from a function key, the cursor was not placed on the intended field. This issue is fixed in v6.3.2.	Character Screens, Internationalization (NLS/Multi Language), XUI Rich Client
SBXA-14593	In v6.3.0 when CustomValidation authentication was introduced, if you used a central config file, Rich Client did not properly handle incorrect passwords. If the user entered an incorrect password, Rich Client would hang instead of prompting for the password again. This issue is fixed in v6.3.2.	Installation / Configuration, XUI Rich Client

Key	Description	Component/s
SBXA-14723	In the first iteration of CustomValidation authentication, introduced at v6.3.0, if you entered an invalid username or password, the client did not return a useful error message. This issue is fixed in v6.3.2.	XUI Rich Client
SBXA-14801	Menu restrictions are set at the group level by specifying the highlight letter of the allowed or disallowed restricted option. Previously, if you set a different language code for a user, the menu restrictions were sometimes not applied correctly, because the highlight letter could be different. This issue is fixed in v6.3.2.	Internationalization (NLS/Multi Language)
SBXA-14931	In previous versions, setting RECORD to null and refreshing the screen did not clear the display of the fields after the last multivalue field on the form. A change in v6.3.2 resolves this issue, and all fields are now cleared.	GUI Forms/ Functions, XUI Rich Client

SB/XA v6.3.0 release notes

Build 5106
Release Date: February 2015
These release notes provide information about enhancements and fixes in SB/XA v6.3.0.

Note: A change in v6.3.0 requires you to have your Communications Server and XUI clients on a 64–bit machine. SB/XA now uses .NET Framework v4.5.1, which makes a 64–bit machine necessary for these components.

Enhancements and fixes in SB/XA v6.3.0

The following issues were addressed in this release:

Key	Description	Component/s
SBXA-854	As of v6.3.0, when you install SB/XA Application Server, several backups of the login proc are made: LOGIN_BACK, LOGIN_BACK_date_counter.	Admin Tools
SBXA-1264	You can perform enhanced filtering and grouping in non-input grids with an enhancement in v6.3.0. These features allow you to distill the data in your grids in several new ways. For more information, see the tutorial video at www.youtube.com. Search for "SB/XA grid filtering and grouping." Additionally, see the "Controlling field options" table in the "Screen definitions" section of the SB/XA Developer's Guide.	Multivalue Grids
SBXA-1608	Previously, if you had more than one tabbed sub screen, and the first object on the second tabbed screen executed a paragraph in the Process Before slot and that paragraph executes a DISP 3 followed by an EXIT {Field Name} to a field in the first tabbed screen, the XUI client went into an endless loop. The second tabbed screen appeared briefly and DISP 3, was displayed again and there was no way to terminate the loop without closing the XUI screen. This issue is resolved in v6.3.0.	XUI Rich Client

Key	Description	Component/s
SBXA-3010	Previously, if you selected a toggle object from the object palette in the form painter, and entered a field that did not support this type of toggle, a message was displayed indicating that the field did not support the toggle type. If you then escaped and saved the screen, the screen definition was corrupted. This issue is resolved in v6.3.0.	Character Screens
SBXA-8891	Previously, if a field in a grid referenced a footer field to display information at the bottom of a column, and that footer field was removed, the field did not work in the grid. As of v6.3.0, validations and intuitive help have been added when associating a field with a footer field. Validations have also been added when removing a footer field from the grid to prevent this problem if it is still referenced by a field in the grid.	SBClient, XUI Form Designer
SBXA-9233	Prior to v6.3.0, the XUI clients did not support vertical toolbars. As of v6.3.0, vertical toolbars are supported in the XUI clients.	Process Definitions
SBXA-9358	Previously, if you used an expression with more than 35 operations, you were logged off the client. As of v6.3.0, this limit has been extended to 70 operations.	SBClient
SBXA-11319	In previous versions, if you attempted to call an InContextProcess from a custom control, the screen would exit if you made the call from within a grid. This issue is fixed in v6.3.0.	XUI Rich Client
SBXA-11421	With an enhancement in v6.3.0, you now can update the license details with /LICENSE.RESET. For more information, see "Relicensing" in Administering SB/XA.	Installation / Configuration
SBXA-11608	The XUI clients do not support Type 3 menus. But with an enhancement at v6.3.0, all Type 3 menus now have an alternate menu with a .XUI suffix that the XUI clients support. Thus any menu shipped with SB/XA can be displayed in XUI.	Menus
SBXA-11612	Previously, if SBXA Communications Server was installed on Windows 8 or 2012 and the c:\tmp directory exists, the c:\tmp\app_tracelog.svclog file was populated with tracing information. This file should not have been created or populated on default installations. This issue is fixed in v6.3.0.	Communication Server
SBXA-11813	Previously, using /SYS,Sysid did not update the top-level menu. This is resolved in v6.3.0.	Menus
SBXA-11880	Previously, if the connection to the SB/XA Communications Server failed, a misleading error message was displayed: "The SB/XA Communication Server version does not match the SB/XA Server version." With a fix in v6.3.0, the following message is now displayed if the connection process fails to read the files on the server when attempting to retrieve the version: "The SB/XA Application Server failed to read the files necessary to return the correct version when checking the SB/XA versions." The error logs will show if this is caused by a missing DMCONT or a missing release item on DMCONT,	Communication Server, Installation / Configuration

Key	Description	Component/s
SBXA-11923	Prior to v6.3.0, FIX.SBPLUS.POINTERS created a bad pointer for DMTHEMES. This issue is fixed in v6.3.0.	Installation / Configuration
SBXA-12033	With v6.3.0, SB/XA provides an array of new XAML style examples and options for improving the look of your intuitive help selection forms. You can use the new, provided styles as they are delivered, or you can use the examples as a basis to build your own styles. The new styles provide smooth scrolling, an optional filter search, and asynchronous data download. It yields improved performance and user experience as you navigate the returned data. For more information, see "Styles for intuitive help selection forms" in the Developer's Guide.	Multivalue Grids
SBXA-12235	In previous versions, if you attempted to start Rich Client and SB/XA Communications Server could not be reached (for instance if it was not started), the client would hang at the splash screen. This issue is fixed in v6.3.0.	XUI Rich Client
SBXA-12327	In previous versions, if you sorted the data in a grid and then clicked on a cell, @CNT was not properly updated for your location within the grid. This problem, which affected XUI and GUI screens, prevented drill-downs in sorted grids. This issue is resolved for XUI only in v6.3.0.	Multivalue Grids
SBXA-12392	Previously, if a pre-run question was defined for a selection process, and you then entered data into the field using the selection process and pressed F3, the results were inconsistent in instances where the data started with a single quote. This issue is resolved in v6.3.0.	Intuitive Help
SBXA-12430	Previously, Rich Client crashed if you used COPY and CT commands after accessing the SB+ command line with /TCL. This issue is resolved in v6.3.0.	XUI Rich Client
SBXA-12474	In previous versions of the XUI clients, you were unable to access the Windows printer selection dialog box in auxiliary printing. The client only displayed the XPS printer screen. With an enhancement in v6.3.0, you can access the Windows printer selection dialog box. In the XUI client, enter /USER.FLAGS, click the Display Aux Select Screen field, and choose option W. After you select this option, Aux appears in the "Output to" dialog when you output a report. Click Aux to access the Windows printer selection dialog box.	Printing / XPS / PDF / HTML
SBXA-12546	In previous versions of the XUI clients, if a field contained special characters and you tried to select an option from the Action bar, the client crashed. This issue is fixed in v6.3.0.	XUI Rich Client
SBXA-12661	Beginning in v6.2.1, some GUI output screens, specifically those without an input field, did not honor the Esc key when you tried to exit the screen. This issue is fixed in v6.3.0.	Form Controls (Radio/Combo/ Text/Label/ Toggle/Memo)
SBXA-12697	Previously, the XUI client did not properly honor specified settings for the default position of the Intuitive Help window. This issue is resolved in v6.3.0.	Process Definitions, XUI Rich Client

Key	Description	Component/s
SBXA-12781	In versions 6.2.3 and 6.2.4, the navigation pane behaved improperly in certain circumstances. If you used the EMO navigation method, collapsed the navigation pane, and closed the client, the navigation pane appeared narrower upon restart of the client. The navigation pane also resized improperly if you chose options such as Show More Buttons or Show Fewer Buttons; again this happened when you collapsed the navigation pane, closed the client, and restarted. This issue is fixed in v6.3.0.	Menus
SBXA-12808	Previously, there was no way for users to reset expired passwords when connecting to SB/XA from outside the domain of the middle tier. This issue is resolved with a new remote password rollover feature in v6.3.0. For more information, see "Setting up remote password rollover" in SB/XA Getting Started.	Communication Server
SBXA-12866	With an enhancement in v6.3.0, you now have greater flexibility to debug your applications in ways you previously could not. The new COMMON variable USER.DEBUG allows you to insert customized debugging programs into your application. Your debugger can track calls and processes that were not tracked by the existing logs in SB/XA. Read more about this functionality in "Logs and debugging" in Administering SB/XA.	XUI Rich Client
SBXA-12932	In v6.2.4, if you entered OFF at the TCL prompt, the screen filled with special characters in a loop, effectively hanging the client. This happened only on a UniVerse-UNIX platform in XUI mode. This issue is resolved in v6.3.0.	XUI Rich Client
SBXA-12959	Beginning with v6.2.1, Rich Client sometimes crashed during a file transfer operation. This issue is resolved in v6.3.0.	XUI Rich Client
SBXA-12980	SB/XA Communications Server and the XUI clients now use .NET Framework 4.5.1, and you will need this version to run SB/XA. If you do not have .NET 4.5.1, you can get it as a free download from the Microsoft product download site. You also likely will still need some components of .NET 3.5 that are not included in .NET 4.5 but are still required by SB/XA. If you do not have these components, you will be prompted to install them during SB/XA installation or upgrade.	Communication Server, SBXA Services, XUI Rich Client
SBXA-13031	Beginning with v6.2.3, when you used the EMO navigation method with multiple sysid's, the Outlook menu sometimes refreshed improperly after you changed the sysid or theme. This issue is resolved in v6.3.0.	Menus
SBXA-13080	Previously, if a screen had the 'Accept Scr prompt' flag set to 'Y' and there was a multivalue on the screen, and 'Use Grids for Multivalued Fields' was set to No, then accepting changes did not save the record. This issue is fixed in v6.3.0.	Character Screens

Key	Description	Component/s
SBXA-13084	Enhancements in v6.3.0 give you several new forms of logging to help debug your application. You can use the new COMMON variable DEBUG.LOGGING to initiate logging on SB/XA Application Server. Additionally, new WCF trace logging capability was added to the XUI clients. Log messages from SB/XA Communications Server were improved for better readability. Read more about these features in the "Logs and debugging" section of Administering SB/XA.	XUI Rich Client
SBXA-13114	In previous versions, if you resized screens in Rich Client to 125 percent, objects sometimes displayed incorrectly. Buttons and fields sometimes had a line or border around them after the screen resize, and the bottoms of buttons were sometimes cut off after the resize. This problem is fixed in v6.3.0.	XUI Rich Client
SBXA-13116	Version 6.3.0 introduces a new authentication method, CustomValidation, which is similar to SBXAUserNamePassword but tailored to systems on which the SB/XA administration server is on a UNIX machine. CustomValidation works only on a UniVerse NLS-UNIX platform. This option allows you to use your UNIX operating system's user name and password scheme to validate your users as opposed to Windows authentication. With CustomValidation authentication, you can set up password rollover so that a user can change his or her expired password. For more information, see "CustomValidation authentication" in SB/XA Getting Started.	XUI Browser Client, XUI Rich Client
SBXA-13135	Previously in the XUI clients, if you changed the System ID and the theme, the top bar of the main window sometimes did not correctly display the new System ID and theme. This issue is fixed in v6.3.0.	Menus, XUI Rich Client
SBXA-13171	Beginning with v6.2.4, in character mode in SBClient, if you changed the value for the Allow Autologin flag on the SB Control Parameters screen to Yes and saved the change, the change was not honored. If you closed the SB Control Parameters screen and opened it again, the value in Allow Autologin remained null or No even if you had changed it to Yes. These problems occurred only in character mode. This issue is resolved in v6.3.0.	Admin Tools, Field Definitions
SBXA-13237	In previous versions, XUI forms behaved differently from GUI forms when you resized them in some circumstances. They should have shown the same behavior. If you made a GUI form smaller to hide content (such as a graph), the graph was hidden from view and no scroll bars were displayed on the form. But in XUI, if you made a form smaller so that content was not visible on the form, scroll bars were displayed. This issue is resolved in v6.3.0; XUI now behaves like GUI, and no scroll bars are displayed.	Form Controls (Radio/Combo/Text/Label/Toggle/Memo)

Key	Description	Component/s
SBXA-13291	Previously, the menu translation process did not always warn you about duplicated letters when it should have. While translating a menu definition, if you used the same letter as the highlight letter for multiple options, the system appropriately warned you that you had duplicated a highlight letter -- but only in a translated option. If you left a menu option untranslated, and you duplicated a highlight letter in the untranslated option, the system did not warn you about the duplicate letter. This issue is fixed in v6.3.0.	Internationalization (NLS/Multi Language)
SBXA-13296	In v6.2, a performance improvement was made for normal grids by applying SBField Style only to the grid field that currently has focus. All other fields had a lighter display style applied until they received focus. In v6.3.0, this same approach has been applied to interleaved grids that are displayed as a card view in the XUI clients. The performance improvement in a small multivalued table with a small number of rows may be small, but it continues to increase as the number of columns and rows increases.	Multivalue Grids
SBXA-13315	With an enhancement in v6.3.0, you now can bypass the XPS Printer in the XUI clients to perform direct auxiliary printing. The new subroutine, TU.SEND.TO.RAW.PRINTER, allows you to drive your physical printer at a lower level. Read more about this subroutine in "PC Printer Control API" in Client Programmer's Guide.	Printing / XPS / PDF / HTML
SBXA-13340	In v6.2.5 and v6.2.6, if you chose Output Option while defining an input process, you were then unable to gain focus on a field by clicking on it. This occurred only in the XUI clients. This issue is resolved in v6.3.0.	XUI Form Designer, XUI Rich Client
SBXA-13341	Previously, the use of a degree (°) symbol in data caused corruption of the display of that data in a multivalued grid in XUI and GUI. The display of the line containing the degree (°) and any subsequent lines in the grid was corrupted. This issue is fixed in v6.3.0.	Multivalue Grids
SBXA-13348	Previously, multivalued sets sometimes did not display as grids when they should have. This happened only when you set a language code, and only in GUI mode. This happened particularly when you tried to include a grid and a non-grid on the same screen or on linked screens; both sets displayed as non-grids when one should have been a grid. This issue is fixed in v6.3.0.	Internationalization (NLS/Multi Language), Multivalue Grids
SBXA-13355	In v6.3.0, improvements were made to file transfer reliability.	XUI Rich Client
SBXA-13377	In v6.3.0, the client SSL libraries have been updated to use OpenSSL 1.0.1j. These libraries address problems with the "heartbleed" bug, along with more general enhancements and issues concerning SSL. The new libraries are: u2libeay.dll version 1.0.1.101, product version 1.0.1j u2ssleay.dll version 1.0.1.101, product version 1.0.1j	Communications / File Transfer

Key	Description	Component/s
SBXA-13500	In previous versions, the "Extra" folder in the installation media did not contain a "BrowserClient" directory with the files necessary for creating a ClickOnce deployment. These files have been added in v6.3.0. For detailed instructions on creating a ClickOnce deployment for the Browser Client, consult the Tech Note in SB/XA-13102.	XUI Browser Client
SBXA-13535	In v6.2.6, problems occurred in some custom controls. A button within a grid was supposed to execute a process, but it it did not. This issue is resolved in v6.3.0.	XAML Styles
SBXA-13538	With an enhancement in v6.3.0, you can draw HTML boxes by sending simple characters to the client. This functionality previously was available only in SBClient; it is now available in the XUI clients. For more information, see the online help in any of the clients. Access General Help>Technical Information>GUI Features>HTML Help.	XUI Rich Client
SBXA-13540	SB+ and SB/XA now offers a guided upgrade feature with an enhancement in v6.3.0. You have the option of using a wizard to identify and remove roadblocks to a successful upgrade from v5.x to v6.3.0.	Installation / Configuration
SBXA-13737	Previously, TU.FORM.SAVEDOS did not work in the XUI clients. With an enhancement in v6.3.0, this functionality works in XUI.	XUI Browser Client, XUI Rich Client
SBXA-13858	Previously, server errors were not captured if the debug window was not running in XUI. As of v6.3.0, server errors are captured in the client log file when the debug window is not running.	Internationalization (NLS/Multi Language), XUI Rich Client
SBXA-13859	In previous versions, you were unable to leave a user's password blank in XUI while GUI and CHAR allowed you to do so. In XUI, if you set up a new user with "Allow Null Pwd" set to "Y" and "Set New Pwd Next Login" to set to "Y," that user was prompted for a new password upon login. The user was unable to leave the password blank in XUI, while GUI and CHAR allowed the blank password. This issue is fixed in v6.3.0; XUI now behaves the same as GUI and CHAR.	XUI Rich Client
SBXA-13862	In versions 6.2.5 and 6.2.6, there were problems with saving data in a grid. In XUI mode only, if you clicked the Save button in a grid without first pressing Enter after entering data, the change to the data was not saved. Furthermore any process to be called after the field was not called. This issue is resolved in v6.3.0.	Multivalue Grids, XUI Rich Client
SBXA-13886	When you edit a paragraph in the full-screen editor in GUI mode, you can exit the editor by pressing Alt+F4 or Ctrl+F4. Previously, if you pressed Alt+F4 while editing a paragraph in the XUI full-screen editor, the client crashed. If you pressed Ctrl+F4, nothing happened. With a fix in v6.3.0, pressing Alt+F4 no longer causes the XUI client to crash. Pressing Ctrl+F4 still yields no result, but does not cause a crash.	SE Screen Editor, XUI Rich Client

Key	Description	Component/s
SBXA-13932	In previous versions, if you invoked intuitive help from a button bar, the content of the COMMON variable @VALUE was not passed to the intuitive help process. This problem occurred only in XUI. This issue is fixed in v6.3.0.	Intuitive Help
SBXA-13937	In previous versions, if you updated a user's password for single sign-on, the User Security Setup window incorrectly displayed a 0 instead of a User ID in the Last Updated By field. This happened only in the XUI client. This issue is resolved in v6.3.0.	XUI Rich Client
SBXA-13948	As of v6.3.0, SB/XA now utilizes Xceed grid version 5.3.0.	Multivalue Grids
SBXA-13964	Previously, numeric fields in grids were incorrectly displayed with left justification in XUI grids. This issue is fixed in v6.3.0; numeric values now are correctly displayed with right justification.	XUI Rich Client
SBXA-13965	Previously, if you created a screen using the XUI screen designer, you subsequently did not see the expected options to edit that screen when running the /MP process. You should have seen buttons F6 and F9 for editing the screen and driver, but those buttons were not presented. This issue is resolved in v6.3.0.	XUI Form Designer, XUI Rich Client
SBXA-14096	With an enhancement in v6.3.0, you have a new ability to collect all of the log files pertaining to a given session into one directory. This can help you to more quickly and efficiently diagnose problems in your application. Log files for SB/XA Application Server, SB/XA Communications Server, and the XUI clients are written to different locations. Previously, if you experienced a crash or other problems in a session, you sometimes needed to look in several different locations before finding the log that detailed the problem. By running the COLLECT.LOGS process, new in v6.3.0, you can save time and work. For more information, see "Logs and debugging" in Administering SB/XA.	Installation / Configuration
SBXA-14235	The process LICENSE.INFO was modified at v6.3.0. With this feature, you can display information about your installation of SB/XA, such as the number of users and whether your installation is authorized for such features as SB/XA Services and Rocket Aldon LM(e).	Installation / Configuration
SBXA-14271	In versions 6.2.2 through 6.2.6, toggles did not behave the same in the XUI clients as they did in GUI. If a toggle had a default value of 0, the toggle was checked in GUI, but not in XUI. With a fix in v6.3.0, the XUI clients now behave the same as GUI, and a default of 0 causes the toggle to be checked.	XUI Rich Client

SB/XA v6.2.6 release notes

Build 4525
Release Date: July 2014
These release notes provide information about enhancements and fixes in SB/XA v6.2.6.

Enhancements and fixes in SB/XA v6.2.6

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-12121	Previously, if you tried to apply a style name to an editable combo box through @VALUE in a paragraph, the style was not applied. This issue is fixed in v6.2.6.	XAML Styles
SBXA-12518	In previous versions, if you edited a tabbed screen in XUI mode, the output process that called that screen failed the next time the screen was run. The error message "processname.XD.VARS not found" was displayed. This issue is resolved in v6.2.5.	XUI Rich Client
SBXA-13051	In versions 6.2.4 and 6.2.5, if you used SETATTR to change the column heading for a grid, the new heading appeared in the first row of the first column instead of the column heading block. This occurred in XUI mode only. The issue is fixed in v6.2.6.	XAML Styles
SBXA-13066	In previous versions, the XUI client sometimes crashed if you used cursor keys to move from a grid to another field. SB/XA displayed the following error message: "We apologize for the inconvenience, but unfortunately an unexpected error has occurred. The application will now exit. If the problem persists, please contact your System Administrator." This issue is fixed in v6.2.6.	Multivalue Grids, XUI Rich Client
SBXA-13075	In previous versions, entering an invalid user name or password caused SB/XA to prompt you for administrator login credentials instead of returning a meaningful error message. This occurred if your authentication type was set to SBXAUserNamePassword and you entered an invalid user name or password in the Connect to Application window in Rich Client. With a fix in v6.2.6, SB/XA now returns an error message regarding invalid user name or password instead of displaying the administrator login window.	XUI Rich Client
SBXA-13086	In previous versions, entering an invalid user name or password caused SB/XA to prompt you for administrator login credentials instead of returning a meaningful error message. This occurred if your authentication type was set to SBXAUserNamePassword and you entered an invalid user name or password in the Connect to Application window in Rich Client. If you then proceeded to enter an invalid user name in the administrator login window, SB/XA returned the following error message: "The given key was not present in the dictionary." The administrator login screen should not have been displayed after the initial entry of an invalid user name or password. With a fix in v6.2.6, SB/XA now returns an error message regarding invalid user name or password instead of displaying the administrator login window.	XUI Rich Client
SBXA-13088	In versions 6.2.3 through 6.2.5, if you used HK.CONTROL to apply a default style to a multivalued field, the style was not applied. This occurred only in the XUI client. This issue is fixed in v6.2.6.	XUI Rich Client

Issue number	Description	Components
SBXA-13091	In previous versions, the Browser Client was missing some files necessary for creating a ClickOnce deployment. These files have been added in v6.2.6. For detailed instructions on creating a ClickOnce deployment for the Browser Client, consult the tech note in SB/XA-13102.	XUI Browser Client
SBXA-13094	In previous versions, if you pressed the intuitive help key on the Valid Applications field on the Single Sign-On tab in User Security Setup, SB/XA returned an inappropriate error message: "THE "//" SHORTCUT CANNOT BE USED WITH THE ENO NAVIGATION MODE." This occurred when Application Hierarchy Mode was set to Hierarchy no ripple, and no applications were defined for the user's group. With a fix in v6.2.6, a more appropriate error message is now displayed: "NO APPLICATIONS AVAILABLE FOR THIS USER. NONE ARE DEFINED FOR THE GROUP."	XUI Rich Client
SBXA-13122	A change in v6.2.3 caused the Defaults Up Front process to behave differently. Consequently, Defaults Up Front settings affected fields with existing data on a screen instead of affecting only empty fields. In some cases, this change caused previously functional screens to no longer work properly. A fix at v6.2.6 causes Defaults Up Front to behave as it did prior to v6.2.3.	GUI Forms/ Functions, Process Definitions
SBXA-13163	Previously, text included in the counter on the progress bar displayed in GUI but did not display in XUI. With a fix in v6.2.6, the text now is displayed on the left side of the progress bar in XUI.	XUI Rich Client
SBXA-13164	In v6.2.5, an XUI form would hang or close if the form contained a field outside of the visible area on the form. This issue is resolved in v6.2.6.	XUI Rich Client
SBXA-13193	In previous versions, excess grid refreshing caused performance issues. Especially in instances where the three tiers of SB/XA were distributed across three computers, the grid sometimes flickered and caused delays when you tried to move between fields. This issue is fixed in v6.2.6.	XUI Rich Client
SBXA-13211	Previously, if you pressed F3 and then Accept on a field in an output process with tabbed screens, the client would sometimes hang. This problem occurred in XUI mode only. The issue is resolved in v6.2.6.	Intuitive Help, XUI Form Designer, XUI Rich Client
SBXA-13383	From SBClient version 6.2.4 through 6.2.5, if you set the Auto Extend Field Length flag to No, the change did not take effect in GUI mode. Auto extend was not disabled as it should have been. This issue is resolved in v6.2.6.	GUI Forms/ Functions, SBClient
SBXA-13389	In previous versions, third-level help did not display correctly, in GUI and XUI mode, if a language code was set for the user. This problem is fixed in v6.2.6.	Field Definitions, Internation- alization (NLS/ Multi Language)
SBXA-13404	In previous versions, toggles sometimes did not display correctly when placed in a grid. This happened when the toggle had a derived value, and another field in the grid had the same derived value. This issue is fixed in v6.2.6.	XUI Rich Client

SB/XA v6.2.5 release notes

Build 4509
Release Date: May 2014
These release notes provide information about enhancements and fixes in SB/XA v6.2.5.

Enhancements and fixes in SB/XA v6.2.5

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-4678	In previous versions of the XUI clients, the Process Definition menu did not display when you entered /PD. This issue is fixed in v6.2.5. This will only resolve the issue in newly created system ID's. In order to resolve the problem in applications that have already been deployed, you will need to copy the item PROCESSMENU from DMCONT to the required xxMENUS or Global Menu files.	Menus
SBXA-9234	Entering F3 in a date field on a screen in the XUI client causes a calendar window to display. In previous versions, the month and year were aligned to the left in the title bar of the calendar window. With a fix in v6.2.5, the month and year now are centered.	Process Definitions
SBXA-10465	SB/XA may present a security violation screen for a number of reasons. Entering a valid response code in SBClient clears the violation, but in previous versions, entering a valid response code in Rich Client only yielded another violation. This issue is fixed in v6.2.5.	XUI Rich Client
SBXA-11371	In previous versions, if you were in a System that was not the default System ID and the theme was not the default SB/XA theme, selecting the default theme placed you back in the default System ID. Changing the theme should not have changed the System. This issue is resolved in v6.2.5.	XAML Styles
SBXA-12191	You can change the icon for menu options in the SBExplorer interface by right-clicking the name beside the icon and selecting Change Icon in the context menu. In previous versions, there was no one-click method to reset the icon. With a fix in v6.2.5, the context menu in the XUI clients now includes a Reset Icon option which allows you to revert to the default icon.	Menus
SBXA-12295	In previous versions, it was possible to inadvertently duplicate a highlighted letter while translating a menu definition. The system did not return an error or warning. A validation code was added at v6.2.5 that produces a warning message if you duplicate a letter.	Internation-alization (NLS/ Multi Language)
SBXA-12403	In previous versions, using the zoom function to increase or decrease the size of a screen in the XUI clients caused the function buttons on the screen to become blurry. This issue is resolved in v6.2.5.	Process Definitions, XUI Rich Client

Issue number	Description	Components
SBXA-12518	In previous versions, if you edited a tabbed screen in XUI mode, the output process that called that screen failed the next time the screen was run. The error message "processname.XD.VARS not found" was displayed. This issue is resolved in v6.2.5.	XUI Rich Client
SBXA-12560	Problems arose in previous versions if you created a screen definition in GUI mode in SBClient and then edited the screen definition in the XUI client. The SD.LOG process should have been called when you made changes in XUI, but it was not. This issue is resolved with a fix in v6.2.5.	XUI Form Designer
SBXA-12672	You can toggle the display of two sets of fields in GUI mode, using a function key that calls SETATTR. In previous versions of the XUI clients, attempts to use this functionality caused incorrect display of the fields. This issue is fixed in v6.2.5.	XUI Rich Client
SBXA-12673	You can use a SETATTR command to change the size of a GUI form. In previous versions, attempts to change the size of a XUI form with SETATTR failed. This issue is fixed in v6.2.5.	XUI Form Designer
SBXA-12725	In previous versions, data did not display correctly in interleaved grids when you used the scroll bar. You needed to double-click a field in order to see its contents. This issue is resolved in v6.2.5.	Multivalue Grids
SBXA-12820	In previous versions, when a language code was set for the user, multivalued fields were not displayed in grids when the Use Grids flag was set to Yes in the input process. This occurred if the HK.CONTROL flag Use Grids for Multivalued Fields was set to No. The input process flag should have taken precedence, but it did not. This issue is resolved in v6.2.5.	Multivalue Grids
SBXA-12923	If you opened a lowercase record name in the Screen Editor (/SE), the /LIST.READU process reported record locks for both a lowercase record name and an uppercase record name. When you exited the editor, /LIST.READU released the lock for the lowercase record name but still reported a record lock for the uppercase record name. After a fix in v6.2.5, the lock is released correctly when you exit the editor.	XUI Rich Client
SBXA-12933	In versions 6.2.3 and 6.2.4, in GUI mode only, problems arose when using GUI.TEXT.ED,1 as a Process Before on a multivalued field. Only the first line of text was displayed. This issue is resolved in v6.2.5; all lines of text now display properly.	GUI Forms/ Functions
SBXA-12965	In previous versions, only if you had a language code set, problems arose when using a memo-type field for an output process. All other fields on that screen subsequently were displayed as memo-type fields. This issue is resolved in v6.2.5.	Form Controls (Radio/Combo/ Text/Label/ Toggle/Memo)
SBXA-13023	In previous versions, SBClient crashed if you chose File>Save Configuration As and then clicked Cancel on the subsequent dialog box. If you then chose File>Exit All, the client crashed. This issue is resolved in v6.2.5.	SBClient

SB/XA v6.2.4 release notes

Build 4434
Release Date: March 2014
These release notes provide information about enhancements and fixes in SB/XA v6.2.4.

What's new in SB/XA v6.2.4

Automatic log file deletion

You can set up automatic clean-up of log files for the Communications Server and the XUI clients with an enhancement in v6.2.4. User flags allow you to set SB/XA to automatically delete log files based on age, number, or both. For more information about automatic log file clean-up, see "Cleaning up log files" in *Administering SB/XA*. SBXA-8033

New paragraph editor

You can edit paragraphs more easily with an enhancement in v6.2.4. The XUI clients have a new color-coded editor that makes paragraph editing more user-friendly. For more information, see "Editing paragraphs in full-screen mode" in *SB/XA Application Server Reference Manual*. SBXA-386

Matrix in the XUI clients

The ability to use matrix definitions, long available only in SBClient, is now available in the XUI clients as of v6.2.4. The matrix, similar to a spreadsheet, is ideally suited to applications like those related to retail clothing. The matrix's X coordinates, for example, might correspond to shirts of varying colors, the Y coordinates denote different sizes, and the intersecting Z coordinates use a function to calculate the price of that item. For more information about on matrix functionality, see "Matrix definitions with XUI clients" or "Matrix definitions with SBClient" in *SB/XA Application Server Reference Manual*. SBXA-4073

SB/XA Services — beta

With SB/XA Services, you can leverage your existing knowledge and investment in SB+ to drive new types of applications. You can extend the reach of your SB/XA application to new devices, languages, and frameworks. SB/XA Services is available as a minimally viable product in v6.2.4. In this first beta release, you can call any non-interactive SB+ process with an HTTP interface. More functionality will be added in future beta releases. You must be a participant in the beta program to enable and work with SB/XA Services at v6.2.4. If you are interested in learning more or participating, contact Rocket U2 at u2askus@rocketsoftware.com. If you are a participant, you will receive beta documentation from your SB/XA Services representative as well as a one-on-one session to help you get started.

Enhancements and fixes in SB/XA v6.2.4

The following issues were addressed in this release:

Issue number	Description	Components
SBXA-386	Version 6.2.4 introduces a new color-coded editor for user-friendly editing of paragraphs in the XUI clients. For detailed information, see "Editing paragraphs in full-screen mode" in SB/XA Application Server Reference Manual.	Process Definitions

Issue number	Description	Components
SBXA-4073	The ability to use matrix definitions, long available only in SBClient, is now available in the XUI clients as of v6.2.4. The matrix, similar to a spreadsheet, is ideally suited to applications like those related to retail clothing. The matrix's X coordinates, for example, might correspond to shirts of varying colors, the Y coordinates denote different sizes, and the intersecting Z coordinates use a function to calculate the price of that item. For more information on matrix functionality, see "Matrix definitions with XUI clients" or "Matrix definitions with SBClient" in the SB/XA Application Server Reference Manual.	XUI Rich Client
SBXA-8033	You can set up automatic clean-up of log files for the Communications Server and the XUI clients with an enhancement in v6.2.4. User flags allow you to set SB/XA to automatically delete log files based on age, number, or both. For detailed information, see "Cleaning up log files" in Administering SB/XA.	Admin Tools
SBXA-9149	In previous versions of the XUI clients, some group application security settings were not properly respected by SB/XA. When an application was removed from the list of applications available to users in a parent group, users belonging to a child group still had access to that application. As a result, extra work was required to set up individual user security settings. With a fix in v6.2.4, SB/XA properly respects group security settings.	XUI Rich Client
SBXA-11409	A flag on the SB Control Parameters screen, "Disallow //," previously was available on all platforms except UV/NLS Unix. This flag was added to the SB Control Parameters screen for UV/NLS Unix at v6.2.4. The // process is used by developers who want to edit programs and immediately run those programs in SB/XA. This ability generally is disallowed for end users.	Documentation, Process Definitions
SBXA-12019	In previous versions of the GUI client, using SETATTR to disable Bitmap images failed to dim the images. This issue is resolved in v6.2.4.	SBClient
SBXA-12059	Problems arose in previous versions of the XUI clients when multiple rows of choices in an auto-complete ComboBox began with the same letter. For instance, if a user selected the option in the second row, the client sometimes selected the first-row option instead due to a faulty selection process in the client. A fix in v6.2.4 resolves this issue.	GUI Forms/ Functions
SBXA-12106	In previous versions, problems could arise when working with ComboBoxes in a grid. If you resized a grid column, the ComboBox did not resize accordingly. With an enhancement in v6.2.4, ComboBoxes now resize when you resize a grid column.	Multivalue Grids
SBXA-12230	Under certain circumstances, in previous versions of the GUI and XUI clients, data stored in OTHER.REC was erroneously displayed in unrelated grid fields. This issue is resolved in v6.2.4.	SBClient, XUI Clients

Issue number	Description	Components
SBXA-12232	Using the /PD.L > Data Transfer DOS to SB+ process to transfer a file failed in previous versions if the file being transferred was empty. This issue is resolved with a fix in v6.2.4.	External Application Integration
SBXA-12237	Due to a font issue in previous versions of the XUI clients, some characters such as a lowercase 'y' did not display correctly in a grid. This issue is fixed in v6.2.4.	Multivalue Grids
SBXA-12276	In previous versions, creating users with null passwords led to subsequent problems when those users tried to run processes such as /SEC.USER.SETUP or any other process that called the SH.VERIFY.USER routine. This issue is resolved in v6.2.4.	Admin Tools
SBXA-12328	In versions 6.2.2 and 6.2.3, language translation for menus sometimes failed in GUI mode in SBClient as well as the XUI clients. If there was no Type 5 menu to regenerate, translated menus did not properly display the translated text in GUI or XUI. This issue is fixed in v6.2.4.	Internationalization (NLS/Multi Language)
SBXA-12354	SB/XA for UniVerse NLS honors locale information that has been set up in UniVerse. In previous versions, there was no way to set locale for an SB/XA user. This issue is fixed for v6.2.4; the Locale prompt has been added to the User Security Setup screen. An SB/XA user's locale is now set correctly when an SB/XA session is connected by the Communications Server.	Installation / Configuration
SBXA-12453	The ability to access the SB+ command line from the XUI clients (through the process /TCL) was added at v6.2.3, but in some instances, that process led to a client crash. Entering /TCL followed by the command WE VOC A caused the client to crash. This issue is resolved in v6.2.4.	XUI Rich Client
SBXA-12470	In previous versions, XPS printing did not work for some users because data was being truncated in the left column. Changing the margin settings in the printer class and updating the printer class definition did not resolve the problem; the XPS Viewer did not honor the changes. This issue is resolved in v6.2.4.	Printing / XPS / PDF / HTML
SBXA-12480	Text did not display clearly in F3 Intuitive Help grid cells in previous versions of the XUI clients. The text was not centered vertically within the cell and appeared truncated. This issue is fixed in v6.2.4.	Intuitive Help
SBXA-12531	In previous versions, using the /MESSAGE process to send a message, with the Alert Recipients Immediately option selected, improperly caused another process to start on the Windows server. This problem was specific only to a UniData-on-Windows platform. The issue is resolved in v6.2.4.	Admin Tools
SBXA-12532	In previous versions of the XUI clients, subscreens incorrectly displayed behind the previous screen instead of in front of it. This happened only if the "Remove OK, Prev & Next Buttons in Output Screen" flag was set to Yes on the SB Control Parameters screen. This issue is resolved in v6.2.4.	XUI Rich Client

Issue number	Description	Components
SBXA-12541	Grids were not used when they should have been in previous versions under certain circumstances. If the "Use Grids for Multivalued Fields" flag at the screen level was set to use grids, the grids should have been used even if flags at the SB Control Parameters level and HK.CONTROL level were set to not use grids. The screen-level flag should have overridden the others, but it did not in previous versions. This issue is fixed in v6.2.4.	Process Definitions
SBXA-12599	In previous versions of the XUI clients, a grid failed to pass a value to the server in certain situations. If a selection process was called from a field in a grid, and it accepted a value to be used to filter the selection, the value was not passed to the server. This issue is resolved in v6.2.4.	Multivalue Grids
SBXA-12698	In previous versions, changing the Intuitive Help Display flag in GUI preferences for a user (/USER.FLAGS) caused the intuitive help window to display incorrectly. It displayed too many rows and ran off the bottom of the screen. This issue is resolved in v6.2.4.	Process Definitions, XUI Rich Client
SBXA-12717	Group security restrictions for menu options were not always correctly honored in previous versions of the XUI clients. If menu options were restricted for a parent group, members of the child group should not have had access to those menu options; however, the restrictions were not honored for Mainwin menu options under certain circumstances. This issue is resolved in v6.2.4.	XUI Rich Client
SBXA-12723	XUI client crashes occurred in v6.2.3 when using the newly implemented /TCL functionality. If you used /TCL to drop to the SB+ command line and then used the Down Arrow key in the SB/XA Admin Console window, selected a command and pressed Enter, the client crashed. This issue is fixed in v6.2.4.	Admin Tools

SB/XA v6.2.3 release notes

Build 4369
Release Date: December 2013
These release notes provide information about enhancements and fixes in SB/XA v6.2.3.

What's new in SB/XA v6.2.3

Enhanced form resizing

With version 6.2.3, you have new options for resizing, zooming, and working with forms in the XUI clients. For detailed information, see "Sizing and zooming XUI forms" in the *SB/XA Application Server Reference Manual*. SBXA-11216

New group application and security techniques

Version 6.2.3 introduces two new options for controlling group application and security settings. For more information on Application Hierarchy Mode, see "SB Control Parameters: Security Tab" *in Administering SB/XA*. For more information on the **Don't automatically add Group Applications** flag, see "Click the Single Sign-On tab." in *SB/XA Getting Started*. SBXA-10586

TCL support in XUI clients

With version 6.2.3, you now have the ability to access the SB+ command line by entering /TCL in Rich Client or Browser Client. Previously this functionality was supported only in SBClient and not in the XUI clients. For more information on accessing command lines, see "Navigation" in *SB/XA Application Server Reference Manual*. SBXA-11670

Enhancements and fixes in SB/XA v6.2.3

The following issues were addressed in this release:

Issue number	Description
SBXA-1727	In previous versions, problems arose when TCL.PCDUMP and TCL.PCLOAD commands were run on a file containing an empty record. A change in v6.2.3 resolves this problem in CHAR and GUI mode. A problem may still exist in XUI and will be addressed in a future release.
SBXA-4881	In recent versions, SBClient did not properly save the Join Lines and Append CR settings on the clipboard setup. This issue is resolved in v6.2.3.
SBXA-10086	With a fix in v6.2.3, changing the Internat/American Date field in SB Control Parameters (/SB.PARMS) no longer results in a reset of all values on the Main tab. This issue was fixed for the UniVerse Windows environment in v6.2.2, and has now been fixed for all other platforms.
SBXA-10538	An enhancement at v6.2.3 causes grids to change size when columns are hidden with the SETATTR command. Previously when columns were hidden with SETATTR, the grid size remained unchanged, leaving blank space.
SBXA-10586	Version 6.2.3 introduces new functionality with group applications and security. In Application Hierarchy Mode, the Hierarchy no ripple option has been enabled. You also have a new flag, Don't automatically add Group Applications. For more information on Application Hierarchy Mode, see "SB Control Parameters: Security Tab" in *Administering SB/XA*. For more information on the new flag, Don't automatically add Group Applications, see "Click the Single Sign-On tab." in *SB/XA Getting Started*.
SBXA-11140	In v6.2.3, the method for styling a grid has changed. Prior to v6.2.3, the grid cells were styled as SBFields for both the content and editor style. Now, the content style on the grid utilizes a TextBlock element to display the data. For further details, see Tech Note SBXA-12142.
SBXA-11141	Version 6.2.3 provides a new set of internal help on XAML styles. In General Help, expand the new XUI features branch to find the new XAML Styles help file. The XAML Styles help is currently the only item in this new branch.
SBXA-11163	In previous versions, if you accidentally pressed F4 to delete a field in Screen Designer in the XUI client, and then chose "No" to cancel the deletion, the client improperly handled a subsequent F5 command to display field properties. This issue is resolved in v6.2.3.
SBXA-11170	Custom themes have faster performance as of v6.2.3 due to a change in the way SB/XA handles its default theme. As a result, users with existing custom themes must remove from their theme definitions all merged dictionaries that reference the SB/XA default theme. This applies only to users working with .NET 4.5. The process for creating new custom themes remains unchanged from previous versions, except users should not create merged dictionaries that reference the SB/XA default theme.
SBXA-11216	You have greater control over sizing and zooming of XUI forms with an enhancement at v6.2.3. New user flags and functionality allow proportional zooming and resizing, global zoom, and other options. For detailed information, see "Sizing and zooming XUI forms" in the *SB/XA Application Server Reference Manual*.

Issue number	Description
SBXA-11275	In previous versions, changing system ID with the command /SYS,Sysid in the Rich Client erroneously failed to update the system ID in the title bar of the Outlook menu and in the menu option. Version 6.2.3 corrects this issue.
SBXA-11277	The parameter "Load theme on SYS call" did not work properly in previous versions. Changing this setting in SB Control Parameters did not produce the intended change in the way themes were loaded when switching systems. This issue is resolved in v6.2.3.
SBXA-11432	The XUI Screen Designer inappropriately downloaded the GUI version of screens under certain circumstances rather than the XD version of the screen. This issue is resolved in v6.2.3.
SBXA-11569	In previous versions, the loading of a report in XPS Viewer could not be cancelled; users had to wait until the report finished loading. Version 6.2.3 resolves this issue.
SBXA-11584	Calling an HTML file in Rich Client with /HTML,filename failed in previous versions, though it worked in GUI mode. This issue is resolved in v6.2.3.
SBXA-11587	The command SB.SROC.MAIN was generating an inappropriate "Uninitialized Variable Used" error in previous versions. This issue has been resolved in v6.2.3.
SBXA-11616	In previous versions, SB/XA incorrectly returned an Unitialized Variable error when executing a screen for the first time in the XUI client with the process SB.GEN.DRIV. A fix in v6.2.3 resolves this issue.
SBXA-11631	In previous versions, using an @REFRESH command (set to @REFRESH = -2) caused SETATTR to fail in changing colors on a grid in XUI mode. This issue is resolved in v6.2.3.
SBXA-11641	In previous versions, using an @REFRESH command (set to @REFRESH = -2) caused SETATTR to fail in changing colors on a grid in GUI mode. This issue is resolved in v6.2.3.
SBXA-11670	With v6.2.3, you now have the ability to access the SB+ command line by entering /TCL in Rich Client or Browser Client. Previously this functionality was supported only in SBClient and not in the XUI clients. For more information on accessing command lines, see "Navigation" in *SB/XA Application Server Reference Manual*.
SBXA-11692	In XUI mode in previous versions, the days in the Calendar Lookup Box did not update properly when scrolling from month to month. Version 6.2.3 resolves this issue.
SBXA-11731	Scroll bars were displayed in incorrect locations on GUI screens in previous versions. The scroll bars were displayed to the right of the ninth column in a screen, even if there were more than nine columns. This occurred when multivalue data was not being displayed in a grid, as set by the G option — Do not use a Grid. With a fix in v6.2.3, the scroll bars now are displayed at the end of the columns.
SBXA-11760	In previous versions, clicking on the status bar of the main client window in XUI mode while a dialog box was being displayed caused the dialog box to disappear behind the main window. This prevented you from entering a response in the dialog box, effectively rendering the client unresponsive. This issue is resolved in v6.2.3.
SBXA-11788	In previous versions, using the Test (F7) function key to test a button in Toolbar Definitions in the Rich Client caused the client to crash. Version 6.2.3 resolves this issue.

Issue number	Description
SBXA-11795	In previous versions, using @REFRESH = 2 on a field caused problems with radio buttons and toggles in the XUI client. You had to click twice on any radio button or toggle following a setting of @REFRESH = 2, once to gain focus on the object and once to change its value. This issue is resolved in v6.2.3.
SBXA-11796	In previous versions, the grid footer field to display the sum of a column failed to correctly display values in output screens (PD.O). This issue is resolved in v6.2.3.
SBXA-11816	Setting the page orientation to landscape in XPS Viewer did not correctly apply the orientation setting to all pages in previous versions. This issue has been resolved in v6.2.3.
SBXA-11825	Text did not always properly align within grid cells in XUI mode in previous versions. This issue has been resolved as of v6.2.3.
SBXA-11847	In previous versions, setting a style in the style name field on the Dialog Box Definition Tool failed to correctly implement the style at run time. Code has been added in v6.2.3 to resolve this issue.
SBXA-11896	Closing a sub-screen while working with custom controls caused the main screen to close in previous versions. This issue has been resolved in v6.2.3.
SBXA-11901	Version 6.2.3 addresses several issues regarding the application of predefined label styles to screens in XUI mode. Previously, predefined styles failed to apply after a screen was modified in the screen designer (/SD) of the XUI client. An inconsistency with naming conventions between GUI mode and XUI mode is now resolved. An issue still persists and will be addressed in a future release, but a work-around is available for v6.2.3. To make sure label styles are applied correctly on a XUI screen, call the field definitions (/FD) for a field containing a styled label, call the additional parameters screen (F6), and manually add the prefix "@FORM*" to a "Label Object Name" field.
SBXA-11911	In previous versions, Rich Client crashed when using a multivalue mark in a display statement with option 9 (DISP 9). This issue is resolved in v6.2.3.
SBXA-11920	Running an output screen with the Enable Multi-language Support flag set to Yes caused the client to crash in previous versions. The issue occurred when there were two sets of multivalue fields on a screen, the screen did not use a grid, and the second multivalue table had a window size of 1. This issue has been resolved in v6.2.3.
SBXA-11936	In previous versions, keystrokes sometimes were inappropriately buffered and then sent to the server from the XUI clients. This happened if a dialog box was being displayed and you clicked on the main client window and pressed Esc. Any subsequent keystrokes then were stored, and they were sent to the server once the dialog box was closed. This issue has been resolved in v6.2.3.
SBXA-12023	Rich Client did not correctly apply settings from the central configuration file in some instances in previous versions. This happened if you were running the client without a central configuration file and then began running it from a location that was using a central configuration file. In that instance, it was possible for some values to be used from cache instead of from the configuration file. This issue has been resolved in v6.2.3.
SBXA-12066	In previous versions, SBClient crashed because of a memory leak when screens were repeatedly displayed. This issue has been resolved in v6.2.3.
SBXA-12071	In previous versions, the intuitive help key (F3) failed to list all valid applications for a user on the Single Sign-On tab of the user security setup. This issue has been resolved in v6.2.3.

Issue number	Description
SBXA-12089	In previous versions, problems arose when a user had a language specified in Multi-language Support and chose the G option for the controlling multivalue field. Multivalue sets were incorrectly displayed as grids. This issue has been resolved in v6.2.3.
SBXA-12186	When you called a process from a custom control in previous versions, the process name sometimes was corrupted. This issue is resolved in v6.2.3.
SBXA-12239	In v6.2.2, upgrading the SB/XA Application Server to a UniData-only database incorrectly loaded directories for UniVerse, as well. This issue has been resolved in v6.2.3.

SB/XA v6.2.2 release notes

Build 4231
Release Date: June 2013
These release notes provide information about enhancements and fixes in SB/XA v6.2.2.

What's new in SB/XA v6.2.2

National Language Support in SB/XA for UniVerse NLS
At v6.2.2, the National Language Support (NLS) feature of the UniVerse database server is incorporated in SB/XA for UniVerse NLS. With the complete functionality of NLS implemented in SB/XA, you have the ability to internationalize SB-developed applications for a diverse customer base. For details, see Chapter 8, "Setting up National Language Support in SB/XA for UniVerse NLS," in the *SB/XA Getting Started* guide. SBXA-8171

Ability to translate headings and buttons in XPS Viewer
With Multilanguage support enabled, the text of headings and buttons in the XPS Viewer can be translated to an alternative language. For more information, see the description for this item in the table below. SBXA-4072

Support for XPS output to Microsoft Excel
At v6.2.2, you can direct Report Writer, QRD, and TU.SEND.TO.PRINTER output to Microsoft Excel in the XPS Viewer. SBXA-4557

Specifying the default system ID in ENO mode
As of v6.2.2, you can specify the system ID to be displayed by default for an account in ENO mode. A new parameter named "Default System ID for ENO mode" has been added in the User Security Setup > XUI Flags tab to support this functionality. SBXA-9634

Parameter to control initial size of documents in XPS Viewer
A new flag named Initial XPS Viewer Document Size controls the initial size of documents in the XPS Viewer. For details, see the description for this item in the table below. SBXA-9989

Showing or hiding the Options menu in the XUI clients
At v6.2.2, the Options button in the SB/XA Browser Client or SB/XA Rich Client main window is shown if the enableOptionsMenu property contains no value or is set to True in the centralized configuration file. You can configure clients to hide the Options button by setting a property in the centralized configuration file. For details, see the description for this item in the table below. SBXA-10110

New group security technique
SB/XA v6.2.2 contains a new field and a new flag reserved for future use as parameters for a group security technique. The new field, named "Application Hierarchy Mode," is in SB Control Parameters (/SB.PARMS) > Security. The value in this field defines the way the user's list of available applications is populated and determines if an application added to a group is also automatically added to the list of available applications for users who belong to the group or to its child groups. Only the default setting of 0 (No hierarchy) is supported in v6.2.2. Do not change this value. The new flag, named "Don't

automatically add Group Application," is in User Security Setup (/SEC.USER.SETUP) > Single Sign-On. Only the default setting of Y (Do not automatically add group applications) is supported in v6.2.2. Do not change this value. SBXA-10586

Enhancements and fixes in SB/XA v6.2.2

The following issues were addressed in this release:

Issue Number	Description
SBXA-1682	When a XUI client loses a connection to SB/XA Communications Server due to an electrical failure, the UniData or UniVerse telnet connection is dropped and the license is released on the database server computer. However, in earlier 6.x versions, if you ran the List Users Logged In (/LISTU) process in SB/XA, it showed incorrectly that the SB license was in use. A fix to the SB/XA Communications Server code resolves this problem in v6.2.2.
SBXA-3132	In the main window, the title bar color now indicates whether the window is in focus. When the main window is not in focus, the title bar is light blue; when the main window is in focus, the title bar changes to a darker blue.
SBXA-3619	In Field Definitions (/FD) > F5-Review, Page Down and Page Up did not display the list of attributes correctly. The code was amended to resolve this problem in v6.2.2.
SBXA-4072	With Multilanguage support enabled, the text of headings and buttons in the XPS Viewer can be translated to an alternative language. In the translation (/TRANSLATE) process, specify the alternative language, click XPS Text, and enter the alternative language text in a table format. For details, see "Translating headings and button labels in the XPS Viewer interface" in the *SB/XA Reference Manual*.
SBXA-4381	In selection process definitions (/PD.S), the F5 Tag and Shift-F5 Untag options are not supported in the XUI clients and have been removed from the XUI interface at v6.2.2.
SBXA-4557	At v6.2.2, you can direct Report Writer, QRD, and TU.SEND.TO.PRINTER output to Microsoft Excel in the XPS Viewer.
SBXA-4577	In previous versions, the ability to change the column width in intuitive help grids was not supported in XUI mode. Two changes were implemented to address this problem in v6.2.2: ▪ In the selection process definition (/PD.S), the F6.Addit button opens the Additional Selection Parameters window, where you can specify the width of each column in pixels for use in XUI mode. ▪ The Grid Cell Width parameter in the System Control Record (/HK.CONTROL) > XUI tab is now applied to selection controls.
SBXA-4795	In XUI mode, if you clicked a button control and moved focus off of it before releasing the mouse button, the button event was executed. This behavior has been corrected in v6.2.2 and XUI mode now works the same as GUI mode: the button event is executed only if the mouse button is released when the button is in focus.
SBXA-5239	After pressing F3 in the Decimal Value for <Enter> Key field in the SB Control Parameters (/SB.PARMS) > Keys tabbed page, the XUI client failed and did not issue a message. With a fix in v6.2.2, the XUI client no longer fails in this situation. In addition, if the Options > Configuration > Client Server Connections > In development mode flag is set to True, a "not implemented" message is displayed.

Issue Number	Description
SBXA-5314	Drop_shadow_depth properties were adjusted in the default SBXA theme and vanilla theme so that fields no longer appear to overlap.
SBXA-7925	In both the Screen Designer (/SD in GUI mode) and the SB/XA Designer (/SD in XUI mode), in screens containing an alphanumeric field with the GUI Object Type set to Textclass, the field lost its label and was redisplayed in the wrong position after the object type was changed to Memo. A fix was applied to the SB/XA Designer in v6.2.2 so that the field no longer loses the label or changes position after the object type is set to Memo. However, in GUI mode, the behavior remains the same as in previous versions.
SBXA-8108	In XUI mode, if you attempted to insert multiple lines in a grid by using Ctrl + Insert, only one new line was added. The grid performance improvements implemented in v6.2.2 correct this problem in the XUI clients.
SBXA-8171	Beginning with v6.2.2, the National Language Support (NLS) feature of the UniVerse database server is incorporated in SB/XA for UniVerse NLS. With the complete functionality of NLS implemented in SB/XA, you have the ability to internationalize SB-developed applications for a diverse customer base. For details, see Chapter 8, "Setting up National Language Support in SB/XA for UniVerse NLS" in the *SB/XA Getting Started* guide.
SBXA-8486	In the screen editor (/SE) in XUI mode, the system failed when attempting to perform a "Replace all" function on a selected word. This issue has been resolved.
SBXA-8494	In the UniData for UNIX edition, inserting lines when editing a file from Admin > Files > Update Processes > Edit a File caused SB/XA Rich Client to fail. A fix prevents this problem in v6.2.2.
SBXA-8537	When the Self Contained Forms flag in the user security record was set to Y, a DISP 9 message was displayed in all open windows, not just the current window, in XUI mode. This behavior has been corrected in v6.2.2, and the message is displayed only in the current window in XUI mode, the same as in GUI modes.
SBXA-8573	A new user created with no password and the Autologin flag set to 0 (Single Sign-on disabled) was able to log on only once in XUI mode. When logging on a second time, the client returned an error message, "The SB/XA user name or password is incorrect." This issue has been resolved in v6.2.2.
SBXA-8576	In SB/XA Rich Client, the Undo function did not cancel the latest changes to text in the Screen Editor (/SE). With a correction in v6.2.2, the Undo function works as designed in XUI mode.
SBXA-8682	When adding a new function key button on a form in the Screen Designer (/SD in GUI mode) or the SB/XA Designer (/SD in XUI mode), the new button was sized automatically and other buttons were repositioned to accommodate the new button in both GUI and XUI modes. As of v6.2.2, the SB/XA Designer (/SD in XUI mode) provides a flag, "Reposition or resize buttons in SD." If the flag is set to Yes, buttons are sized or repositioned automatically.
SBXA-8686	In v6.2.2, a "Disallow //" flag was added on the SB Control Parameters (/ SB.PARMS) > Main tab. When this flag is set to Yes, the "//" process, which reloads the SB environment, is disallowed.
SBXA-8762	When multiple instances of SB/XA Communications Server were defined in the common configuration file, the client connected to the wrong communications service. The fix to a related issue also corrected this problem.
SBXA-8774	When viewing user and group security records, the tree structure was not shown in SB/XA Rich Client. This functionality is implemented in v6.2.2.
SBXA-8986	Double-clicking on a hyperlink in XUI mode caused the client to fail. A code change has resolved this problem in v6.2.2.

Issue Number	Description
SBXA-9090	In some circumstances, forms were disabled after they were edited and closed in the SB/XA Designer (/SD in XUI mode). A fix resolves this issue in v6.2.2.
SBXA-9102	In the XA or vanilla theme in XUI mode, scroll bars were not displayed after resizing the Properties window smaller so that not all lines were visible. A code change corrects this behavior in v6.2.2, and scroll bars are displayed as expected in the XUI clients.
SBXA-9103	Resizing the Properties palette also changed the size of the "..." button in the SB/XA Designer (/SD in XUI mode). This behavior has been corrected.
SBXA-9104	In v6.2.0 or later, the Left, Top, Height, and Width properties were not validated in the Properties palette of the SB/XA Designer (/SD in XUI mode), so negative and oversize values were allowed. A validation routine was implemented to prevent this problem in v6.2.2.
SBXA-9105	In the Font dialog box of the SB/XA Designer (/SD in XUI mode), "default_font" is the default selection, but it could not be used as a valid value. With a fix in v6.2.2, "default_font" can be used as a valid value, and any invalid value is interpreted as "default_font".
SBXA-9112	In the SB/XA Designer (/SD in XUI mode), opening two forms and closing the second form by clicking the X (Close) button caused the client to fail. The code was amended to prevent this problem in v6.2.2.
SBXA-9131	Adding a saved function key set to a XUI screen definition caused the XUI client to fail when the screen was run. With a code change in v6.2.2, a saved function key set in a screen no longer causes client failure.
SBXA-9148	For SB/XAUserNamePassword authentication type only, if the OS User ID field in the user security record is initially left blank and the user enters a value in the User Name field at logon, the user name is saved to the OS User ID field in the user security record.
SBXA-9153	Corrections to hover help and spelling of "Storage" were made in the Group Security Setup (/SEC.GROUP.SETUP) form.
SBXA-9236	In tabbed forms in XUI mode, clicking on a subsequent tab before entering the record key in the first tab briefly displayed an inaccessible subsequent tab and then displayed the first tab. With a fix in v6.2.2, the inaccessible subsequent tab is not displayed. The behavior is now consistent in XUI and GUI modes.
SBXA-9246	F3 intuitive help on a date field opens the Calendar window with today's date highlighted. In previous versions, if you scrolled forward or back and returned to the current month, today's date was no longer highlighted; if you pressed Enter on today's date, the wrong date was returned. This issue has been resolved in v6.2.2, and selections from the Calendar return the correct date.
SBXA-9399	For XPS.CLASS, add/insert/delete (AID) restrictions were implemented to prevent inserting attributes in this printer class definition.
SBXA-9432	In the UniData for UNIX edition, the system was disconnected on clicking the XUI Favs menu in Group Security Setup (/SEC.GROUP.SETUP). This issue has been resolved in v6.2.2.
SBXA-9634	As of v6.2.2, you can specify the system ID to be displayed by default for an account in ENO mode. A new parameter named "Default System ID for ENO mode" has been added in the User Security Setup > XUI Flags tab to support this functionality.
SBXA-9691	In SB Control Parameters (/SB.PARMS) > GUI Flags, pressing F3 in the Navigation Method field and selecting the EMO navigation method returned an error. A fix was applied to validate the EMO option in /SB.PARMS, preventing this error in V6.2.2.

Issue Number	Description
SBXA-9692	In v6.2.0, the driver lines for "non-grid" grid fields were missing dependent field information. The code was revised to correct this problem in v6.2.2.
SBXA-9753	A list of default styles is available in General Help > Technical Information > Screen Default Styles.
SBXA-9771	At v6.2.2, if an icon is specified for a menu option in the menu definition (/MD > F6-Addit > F5-MPX Parameter), the icon is displayed for the menu option when the menu is displayed as a context menu.
SBXA-9849	In the List SB Users (/LISTU) window, the width of the process ID (PID) field was increased to prevent truncating process IDs.
SBXA-9888	The XUI client failed when attempting to run the Admin > Media Commands > Load File From Media function. A fix was applied to prevent this issue in v6.2.2.
SBXA-9989	A new flag named Initial XPS Viewer Document Size controls the initial size of documents in the XPS Viewer. The XPS Viewer shows the full width of the document if it is smaller than the screen size minus a margin. If the document is wider than the screen size, minus a margin, this parameter determines whether the document is shown at actual size with scroll bars or scaled down so the width of the document fits the XPS Viewer.
SBXA-10011	With a change implemented in v6.2.2, Microsoft Outlook-style menus can display more than three system IDs initially, and the number of system IDs last displayed persists when you restart the client.
SBXA-10035	Arrow keys did not work reliably in combo boxes in XUI mode; they sometimes did not function at all, and the only workaround was to use the mouse instead. The behavior of arrow keys was corrected in v6.2.2.
SBXA-10045	Menu coordinates containing decimal values (such as 13,4.37) caused the XUI client to fail. A fix was implemented in v6.2.2, and the XUI client disregards decimal values without failing, the same as in GUI mode.
SBXA-10079	Query (/QRD) reports did not use the Printer Orientation or Stationery setting from the report definition. For example, query reports were not displayed in landscape mode when the Stationery field was set to Landscape in the report definition (from F9-Addit > F7-XPS Parameters). This problem has been corrected in v6.2.2, and query reports honor the settings in the report definition.
SBXA-10086	With a fix in v6.2.2, changing the Internat/American Date field in SB Control Parameters (/SB.PARMS) no longer results in a reset of all values on the Main tab.
SBXA-10090	The Process Name field in the Process Defn - Paragraph (/PD.P) window has been extended to 60 characters to accommodate long process names.
SBXA-10092	Icons for systems IDs on Microsoft Outlook-style menus did not default to the icons defined in MPX Parameters in the SBSYSMENU. With a code change in v6.2.2, SB/XA checks the VOC SBSYSMENU for a defined icon for the system ID.
SBXA-10097	In the SB/XA Designer (/SD in XUI mode), a new field added to the form was corrupted after changing the field name via the F5 option. This issue has been resolved.

Issue Number	Description
SBXA-10110	At v6.2.2, the Options button in the SB/XA Browser Client or SB/XA Rich Client main window is shown if the enableOptionsMenu property contains no value or is set to True in the centralized configuration file. The Options button provides access to a menu of configuration settings for the client and SB/XA Communications Server. You can configure clients to hide the Options button by setting a property in the centralized configuration file. To hide the Options button, insert the following lines in the XML document: <Property> <Name>enableOptionsMenu</Name> <Value>False</Value> </Property>
SBXA-10114	Running a SAVE-LIST in a shell wrapper (/PD.H) process did not save the results of a SELECT previously run by the shell wrapper process. A fix resolves this issue in v6.2.2.
SBXA-10132	In field definitions (/FD) in the XUI clients, clicking on the main window when a dialog box was displayed caused the client to fail if the dialog box was smaller than the current form. A code fix was implemented to prevent this problem in v6.2.2.
SBXA-10137	The calculator (/CALC) process in the XUI clients was unable to multiply by a negative number and returned an incorrect value. A fix was applied in v6.2.2 and the calculator can handle negative values in XUI mode, as designed.
SBXA-10140	In v6.1.4 and later, special characters were not displayed correctly in F1 help. This issue has been resolved.
SBXA-10147	The calculator (/CALC) process returned an error when performing calculations with a result greater than 1000 if the region was Germany. This issue has been corrected in v6.2.2.
SBXA-10165	With an enhancement in v6.2.2, toggles (check boxes) are positioned by default: • Inside a grid, toggle objects are centered. • Outside a grid, toggle objects are left-justified. You can override the default position with a custom XAML style.
SBXA-10173	With a fix applied to the shell wrapper process (/PD.H) in v6.2.2, the output of the shell command is not displayed in GUI mode.
SBXA-10199	Using Alt-F4 to close a session in SB/XA Rich Client caused the client to close as expected, but left the server session running. The code was amended to correct this problem in v6.2.2.
SBXA-10202	When entering data in a selection process to narrow the results, the Select multi-value window allowed entry of only one multivalue string. This issue has been resolved in v6.2.2.
SBXA-10224	With a fix in v6.2.2, a null password is accepted in Security > Initialize Users Password when the Allow Null Password option is switched on, as designed.
SBXA-10232	Clicking between multivalue grids in the same screen reloads the data in the grid that is clicked. This resulted in a significant delay if the grid contained a large number of rows. Grid improvements implemented in v6.2.2 increase performance in the data reload.
SBXA-10234	Entry of the ° degree sign (Alt-248 on the keyboard) was supported in both XUI and GUI modes, but the symbol was not displayed in data in the XUI client after a REFRESH. A fix resolves this problem in v6.2.2, and the degree sign is displayed as expected.
SBXA-10236	In the UniVerse edition, calling SB.ROC with special characters such as "44°" caused the server to fail and the XUI client to shut down. A fix prevents failure in this situation in v6.2.2.

Issue Number	Description
SBXA-10239	A derived field displayed an image in GUI mode, but not in XUI mode. The process displayed the pathname of the file rather than the image in the XUI client. This issue has been corrected in v6.2.2.
SBXA-10247	When using the ENO navigation method (SBExplorer with Microsoft Outlook-style interface, without MainWin) with a custom theme in the XUI clients, the following occurred: The menu turned gray. The icons, system ID, and description were not displayed on the active tab. Right-clicking the menu for tabs no longer worked. These behaviors have been corrected in v6.2.2.
SBXA-10250	In earlier versions, a user who received the "Record locked" message was assigned the user name of the user who locked the record. The code was amended to correct this problem in v6.2.2.
SBXA-10277	SBClient DLLs are copyright-branded with both the date and company name in v6.2.2.
SBXA-10316	When using a custom help provider and the provider returned a value of False, the message "No help available for focus" was displayed, and the client had to be closed before proceeding. With a modification in v6.2.2, the client no longer fails in these circumstances.
SBXA-10324	When attempting to add an account with an incorrect path, SB/XA returned an error message, "COULD NOT OPEN A PATH TO PATH." The error message text has been revised to, "THE PATHNAME DOES NOT POINT TO AN EXISTING ACCOUNT."
SBXA-10374	In the SB/XA Designer (/SD in XUI mode), if you added a dependent mutivalue field on a screen and placed an image in the field, the details of the image were lost after saving the screen. When editing the screen, the multivalue image field showed a blank field definition. This problem has been fixed in v6.2.2, and the image details are saved as designed.
SBXA-10384	The "/" process command was not supported in ENO navigation (SBExplorer with Microsoft Outlook-style interface, without MainWin) in XUI mode. After a fix in v6.2.2, the "/" command works as expected in the ENO navigation method.
SBXA-10389	Images were not displayed correctly in grids: Grid updates did not refresh images if no previous data had changed, and an individual image cell in a grid did not load the image. Several fixes prevent problems with grid images in v6.2.2.
SBXA-10391	In ENO navigation (SBExplorer with Microsoft Outlook-style interface, without MainWin), running the /DATE process when only the menu was displayed caused the XUI client to fail. A code fix prevents this problem in v6.2.2.
SBXA-10402	De-emphasizing a button bar icon on a tabbed screen did not work in SB/XA Rich Client. The code was amended to fix this issue in v6.2.2, and icons are de-emphasized in the button bar as designed.
SBXA-10421	In the ENO navigation method (SBExplorer with Microsoft Outlook-style interface, without MainWin), entering "//" in any field caused SB/XA to fail. The "//" shortcut is designed to return to the main menu, which is not used in ENO mode. At v6.2.2, this shortcut is disabled in ENO navigation; entering // in any field returns an error message, "THE '//' SHORTCUT CANNOT BE USED WITH THE ENO NAVIGATION MODE."
SBXA-10426	In Revision Control, revision reports can now be output to screen in the XPS Viewer. Revision Control supports three output options: Screen, Printer, and Listview.
SBXA-10439	As of v6.2.2, options and hot keys on a type 5 menu and its submenus can be translated to an alternative language. For details, see "Translating a type 5 menu" in Chapter 3, "Main Tools," in the *SB/XA Reference Manual*.

Issue Number	Description
SBXA-10463	In the XUI clients, after calling a menu from a form, clicking on the form caused the form to be displayed on top, obscuring the menu from view. This behavior has been corrected so that XUI mode works the same as GUI mode: the action of clicking the form when the menu is still open has no effect.
SBXA-10466	When running an input process in SB/XA Rich Client, if you tabbed past a multivalued field with a default value, the value was displayed in both the previous and current multivalued fields, corrupting data. The code was revised to correct this problem in v6.2.2.
SBXA-10470	In ENO navigation method (SBExplorer with Microsoft Outlook-style interface, without MainWin), if you set the 'Send Esc to Server on 'X' from Mainwin' flag to Yes, pressing the X (Close) button in the upper right corner of the window did not close the application. A fix was applied in v6.2.2, and the ENO method closes the window when X is pressed and no other forms are showing.
SBXA-10497	When using the EMO navigation method, an incorrect system ID was sometimes displayed when a screen was called from the Favorites folder. If you placed menu items from different system IDs in the Favorites folder, the system ID at the top of the main window was not always updated with the correct system ID. With a correction in v6.2.2, the original system ID is restored after running a process from the Favorites menu that is not in the current system.
SBXA-10523	Arrow keys did not work in F3 intuitive help selection lists in GUI mode when the ListView Style Selects flag was set to N (No). The behavior of the arrow keys has been corrected in v6.2.2, and these keys again work to scroll the list of values when this flag is set to N.
SBXA-10526	Rectangle object properties were missing from the SB/XA Designer (/SD in XUI mode). These properties were added in v6.2.2.
SBXA-10537	Improvements were implemented in v6.2.2 to support pasting data in excess of 20,000 characters from the Windows Clipboard to SBClient. Note that pasted data is truncated to 64,000 characters.
SBXA-10541	In v6.2.1, an F3 lookup on screen names in /SD did not support narrowing the search by entering characters. This issue was addressed in v6.2.2, and the search narrowing feature now requires entering a right square bracket character "]" after the search character. For example, enter B] to narrow the F3 search results to entries beginning with the letter B.
SBXA-10586	SB/XA v6.2.2 contains a new field and a new flag reserved for future use as parameters for a group security technique. The new field, named "Application Hierarchy Mode," is in SB Control Parameters (/SB.PARMS) > Security. The value in this field defines the way the user's list of available applications is populated and determines if an application added to a group is also automatically added to the list of available applications for users who belong to the group or to its child groups. Only the default setting of 0 (No hierarchy) is supported in v6.2.2. Do not change this value. The new flag, named "Don't automatically add Group Application," is in User Security Setup (/SEC.USER.SETUP) > Single Sign-On. Only the default setting of Y (Do not automatically add group applications) is supported in v6.2.2. Do not change this value.
SBXA-10594	Using the modify process (/MP) to drill down from a process slot to the source code in the SB/XA Designer (/SD in XUI mode) caused the XUI client to fail. A code change was applied to prevent this problem in v6.2.2.
SBXA-10598	In the field definitions (/FD) process, calling the Other Elements option in the Build Expressions window in GUI mode produced an error and failed to display the elements. The code was amended to correct this problem in v6.2.2.

Issue Number	Description
SBXA-10642	In the UniData edition, the record lock did not report the user correctly if the file had a relative pointer in the VOC. This issue has been resolved in v6.2.2.
SBXA-10658	In some cases in XUI mode, the Process After slot of a toggle (check box) object was not run. This occurred if the toggle was the last field on the screen and you selected the check box and then clicked F2. A correction was made in v6.2.2, and the Process After slot of a toggle runs in XUI mode, the same as in GUI mode.
SBXA-10670	ALT hot keys in subscreens did not work correctly in the XUI clients. If the main screen called a subscreen and each had the same hot key associated with a different function key, the function key from the main screen was called when the subscreen was open and the user pressed the hot key. A fix prevents this problem in v6.2.2.
SBXA-10682	In v6.2.1, multivalue fields in non-grids displayed values in the wrong fields in GUI mode. The code was amended to correct this problem in v6.2.2.
SBXA-10684	An image field on any screen caused SB/XA Rich Client to fail. This issue has been fixed.
SBXA-10694	In XUI mode, combo boxes on tabs did not load reliably. Default values were displayed on first access of the tab, but not on subsequent access. Clicking the combo box arrow displayed values multiple times. These combo box display issues have been resolved in v6.2.2.
SBXA-10711	A change to the String property did not take effect in the SB/XA Designer (/SD in XUI mode) until pressing Enter. Changes to properties are now reflected immediately on the canvas.
SBXA-10713	A change to the Foreground property for a label in the SB/XA Designer (/SD in XUI mode) had no effect. This issue has been fixed in v6.2.2.
SBXA-10718	In the User Security Setup (/SEC.USER.SETUP) > Custom tab, the Language Code drop-down list did not contain values. If you pressed F3 for help and selected a language code from the list, the code was not populated in the Language Code field. In v6.2.2, the Language Code field is a text box, and selection of a value from the F3 help list populates the Language Code field as expected.
SBXA-10731	When using Wyse terminal emulation in SBClient, screen attributes were lost after saving and restoring the screen. A fix resolves this problem in v6.2.2.
SBXA-10733	A new verb, LENDP, has been added to the paragraph process (/PD.P) language in the NLS edition. This verb returns the display length of a string/variable. The syntax is X=LENDP(Y).
SBXA-10755	Scrolling to the bottom of a select window did not trigger a download of the next packet of data as expected. This issue was resolved in v6.2.2.
SBXA-10773	In input processes running in XUI mode, the F3 intuitive help button was not enabled when there was intuitive help on a field. With a correction in v6.2.2, the F3 button is again enabled when intuitive help is available on a field.
SBXA-10776	If the user opened a lowercase record name in the Screen Editor (/SE), the /LIST.READU process reported record locks for both a lowercase record name and an uppercase record name. On exiting the editor, /LIST.READU still reported a record lock for the uppercase record name. After a fix in v6.2.2, the lock is released correctly on exiting the editor.
SBXA-10805	In SB/XA Rich Client, pressing the hot key for a function key to exit the window did not display the Save Changes dialog box as expected. This issue has been corrected in v6.2.2.
SBXA-10807	Using DISP 9 with the following syntax caused the XUI client to fail: DISP 9,"VALUE 1,":@AM:", VALUE 2,":@AM:", VALUE3" A fix prevents this problem in v6.2.2.

Issue Number	Description
SBXA-10820	On AIX, setting a keyboard timeout in the group security record updates the user security record, and this resulted in corrupting the group record. This issue has been resolved in v6.2.2.
SBXA-10828	In some cases, calling a process that set REFRESH corrupted data on screen. This problem occurred when focus was on a date field and the date field was followed by a numeric field. On returning from the process that set REFRESH, pressing Enter on the date field displayed the data incorrectly. A fix resolves this issue in v6.2.2.
SBXA-10830	Date conversion was not applied when a process that sets @REFRESH was called from a custom control. Specifically, this occurred when a process that sets @REFRESH = "2" was called from a XAML custom control and focus was on a date field followed by a numeric field. A fix was applied to resolve this problem in v6.2.2.
SBXA-10944	The progress bar did not work after a DISP 9 message was displayed. This issue has been resolved.
SBXA-10967	Support for the TU.GET.DEFAULT.PRINTER and TU.GET.PRINTER.LIST subroutines has been implemented in the XUI clients.
SBXA-11345	A derived field displayed an image in GUI mode, but not in XUI mode. The process displayed the pathname of the file rather than the image in the XUI client. This issue has been corrected in v6.2.2.

SB/XA v6.2.1 release notes

Build 4118
Release Date: February 2013
These release notes provide information about enhancements and fixes in SB/XA v6.2.1.

What's new in SB/XA v6.2.1

Components certified for Microsoft Windows editions
At V6.2.1, SB/XA Rich Client and SB/XA Communications Server are certified to run on Microsoft Windows 8 and with Microsoft .NET Framework 4.5. For further information, see Tech Note SBXA-10153. Additionally, SBClient is certified to run on Microsoft Windows 8. SBXA-9334

At V6.2.1, SB/XA Rich Client and SB/XA Communications Server are also certified to run on Microsoft Windows Server 2012. For further information, see Tech Note SBXA-10154. Additionally, SBClient is certified to run on Microsoft Windows Server 2012. SBXA-9979

SB/XA Designer help
V6.2.1 introduces the first iteration of SB/XA Designer help. The help covers tasks to create and update XUI forms in the SB/XA Designer interface. The SB/XA Designer help is available as a compiled help (CHM) file from the "View or install product documentation" link on the product setup menu. A PDF version of the help is also available in the documentation set. SBXA-4944

Enhancements and fixes in SB/XA v6.2.1

The following issues were addressed in this release:

Issue Number	Description
SBXA-33	As of V6.2.1, the F8-Compile process in the screen editor (/SE) displays a message on successful completion.

Issue Number	Description
SBXA-408	Previously, changes to a user's allowed menu options or changes to a menu were not shown automatically in the SystemBuilder Explorer (SBX/MPX) menu tree. With an enhancement in V6.2.1, the SBX/MPX menu tree refreshes automatically.
SBXA-1206	In previous versions, the regenerate GUI default sets process (/REGEN.GDS) returned a "Process not found" error if you specified more than one GDS process to regenerate. This issue is resolved in V6.2.1, and the /REGEN.GDS process no longer produces an error when regenerating multiple GDS processes.
SBXA-1307	After saving a multilanguage translation record for a label from the /TRANSLATE process running in GUI mode, the multilanguage record was corrupted in some cases. This problem occurred if you created a new account for a system ID and did not update the system control record by running /HK.CONTROL. A code fix was applied in V6.2.1, and updating the system control record for the newly created account is no longer required.
SBXA-2976	A tool is provided in the Technical Support issue replication system to assist you in building database phrases and updating the related field definition. The tool parses the SB screen definitions and suggests controlling/dependent relationships based on the multivalued information provided in the screen definition.
SBXA-3697	Entering the field length as a negative number did not force an automatic carriage return when the cursor reached the end of the field in XUI mode. A fix was applied in V6.2.1, and the auto enter feature works as designed in all modes.
SBXA-4541	A table definition that uses the Allow Null option works only when you have a value in the Input Code column. In version 6.2.1 a validation prevents you from setting Allow Null to Yes and saving the record when the Input Code field for any row is Null. A new process on the action bar, Id NULL Problems, reports on any existing table definitions in which this problem may exist.
SBXA-4556	In V6.1.0 and later, screen sizes and positions were lost when the client cache was cleared, and there was no parameter to control this behavior. In V6.2.0, a flag to save screen size and position was added at the SB instance level in SB Control Parameters (/SB.PARMS), at the system level in the System Control Record (/HK.CONTROL), and at the user level in User Flags (/USER.FLAGS). In addition, the following new processes have been created: ▪ CLEAN.MY.POSCACHE – Deletes the DMPOSCACHE item for the current user. ▪ CLEAN.POSCACHE – Prompts for the user whose cache is to be cleared. ▪ CLEAN.ALL.POSCACHE – Deletes DMPOSCACHE items for all users. Note that after clearing the client cache, you must log off and log on again to restore the server cache.
SBXA-4612	Character forms reserve line 22 as a status line; GUI and XUI forms do not have this requirement. In GUI and XUI forms that are linked to a Character form, input fields are now supported on lines 22 and lower.

Issue Number	Description
SBXA-4706	Multilanguage support has been implemented for right-click pop-up menus in the SystemBuilder Explorer (SBX/MPX) menu tree in GUI and XUI modes. An MPX Text screen has been added to the /TRANSLATE feature. It is accessed as the last option after selecting the language. The new screen consists of four elements: ▪ The number of the attribute in MPX.TEXT to be translated. ▪ A display-only field indicating the language of the text that is being translated. ▪ The text from the original MPX.TEXT item in DMCONT for this attribute. ▪ The translated text. The MPX.TEXT item is created by this screen and stored in DMLANGUAGE.XX. If you set a language code in user flags, the server reads MPX.TEXT from the appropriate DMLANGUAGE.XX and sends it down to the client.
SBXA-4761	In SB/XA Rich Client, focus did not return to a field after pressing Alt-Tab to leave the field and then pressing Alt-Tab again to return to the field. A fix was applied in V6.2.1, and focus returns to the field as expected.
SBXA-4907	In the UniData edition, the /TU.UPLOAD process failed when the target file on the host was a DIR-type file. This issue is resolved in V6.2.1.
SBXA-4944	V6.2.1 implements the first iteration of SB/XA Designer help. The help covers tasks to create and update XUI forms in the SB/XA Designer interface. The SB/XA Designer help is available as a compiled help (CHM) file from the "View or install product documentation" link on the product setup menu. A PDF version of the help is also available in the documentation set.
SBXA-5177	In the XUI clients, the intuitive help icon (magnifying glass) was available in the toolbar when there was no intuitive help for the current field. This issue has been corrected, and the icon is displayed as unavailable (gray) when help is not available for the field.
SBXA-5238	Reports displayed in landscape orientation in the XPS Viewer changed to portrait orientation when printed. To address this issue, the XPS code was amended so that if the report's page width exceeds the page height, the report is printed in landscape orientation by default. You can override the default for individual reports from the Preferences button in the Print dialog box.
SBXA-5267	In XUI mode, the Admin > Files > View File Data > List All File Names option returned the list of file names in an error message format that was difficult to read. The List All File Names function has been changed in V6.2.1 so it runs the /HK.FILES.O process and displays the file names in a grid.
SBXA-5277	In previous versions, a problem occurred if you opened a session configured to connect to one server, added a second configuration to connect to another server, deleted the first configuration, created a new configuration with the same name as the first configuration but connecting to a different server, and deleted the second configuration. After closing and restarting SB/XA Rich Client with the new configuration and testing the connection, the client returned an error. A fix prevents this problem in V6.2.1, and the new configuration works as expected.
SBXA-5286	In V6.1.2 and later, the Connect to Application field in SB/XA Rich Client accepted any value and then connected to the last-connected application. The code has been corrected in V6.2.1, and the Connect to Application field checks the entered value against the user's valid applications.
SBXA-5295	In cross-domain connections, entering incorrect logon credentials resulted in an unhandled exception. With a code change in V6.2.1, the XUI client issues a standard "Failed to connect" error.

Issue Number	Description
SBXA-5302	After changing the server name and the authentication type in SB/XA Client Configuration > Communications Server Connections, the user name and password were not updated in the SB/XA Communications Server Connection window. A fix was applied in V6.2.1, and the user name and password are updated for the associated server name and authentication type.
SBXA-5386	When upgrading from a UniData V6.x edition, the /SA.TRANSFER.SBPLUS process always returned the error message, "The upgrade was not successful. Do not delete the SB.OLD account." As of V6.2.1, the text of the error message has been clarified as follows: "Problems were encountered during the upgrade process. Please review the messages above before removing .OLD accounts."
SBXA-8054	In the XUI clients, the export configuration option has been enhanced at V6.2.1 to export a formatted document instead of one long line.
SBXA-8076	Changes made to the account restrictions in Group Security Setup (/SEC.GROUP.SETUP) did not generate audit records in the DMSECURITY.GROUP.AUDIT file. This issue has been corrected in V6.2.1, and the audit records are generated as expected.
SBXA-8307	When deleting a table conversion from a field definition (/FD), attribute 19 of the .FieldName item was not removed correctly, and the remaining string caused problems at run time. A fix corrects this issue in V6.2.1.
SBXA-8450	If you set up a report definition to print to the XPS printer on LETTERLAND stationery by default and then changed to LETTER stationery at run time, the report printed in landscape rather than portrait orientation. To address this issue, a new screen available from Report Definitions (/PD.R) > F9-Additional > F7-XPS Parameters captures XPS-specific printer parameters. These parameters serve as a default for the report, and can be overridden at run time using the selection screen.
SBXA-8461	In V6.2.1, the regenerate expressions (/REGEN.EXP) dialog box contains an Item ID field in which the user can specify a single item to be regenerated.
SBXA-8543	Default print settings for Max Standard Cols/Rows and Max Condensed Cols/Rows were missing from A4 and A4LAND stationery types. Default settings for these parameters are now present in V6.2.1.
SBXA-8781	An SB screen returns all values, but SB.SMART.QUERY returned only the first value of a multivalue field when using the following syntax: (F("FileName",MV(FieldName))<POS(FieldName,value),-1>) As a result, the data returned by an Access/Query report was incorrect. A fix resolves this issue in V6.2.1, and SB.SMART.QUERY now returns all multivalue data.
SBXA-8845	Automatically generated selection windows that returned only one column of data calculated the required width of the column incorrectly and displayed a window and grid that was not wide enough to show the data. A fix corrects this problem in V6.2.1.
SBXA-8846	In the SB/XA Designer, clicking **Options** > **Place in Menu** > **Execute Now** did not open the Place in Menu Parameters window, where the user enters the process type, name, and description. This problem has been resolved in V6.2.1, and the window now opens as expected.
SBXA-8882	In the SB/XA Designer, clicking in a row of the Resequence Fields grid did not highlight the selected row. A correction to the grid code prevents this problem in V6.2.1.

Issue Number	Description
SBXA-8884	Accepting changes to a subscreen that was called from a GUI click process saved the record. The code has been corrected so that changes to the subscreen are accepted without saving the record.
SBXA-8910	The TU.PC.UPLOAD routine did not run in the XUI clients. V6.2.1 implements support for TU.PC.UPLOAD in XUI mode, with certain restrictions: ▪ Options D, E, R, S, and T are not supported. ▪ Option H is implemented as the default. ▪ Separator Mode = 0 is not supported.
SBXA-8958	When the last object on a form was a toggle object that was hidden with SETATTR, pressing F2 closed the form in XUI mode. With a fix in V6.2.1, the form remains open after pressing F2 in XUI mode, the same as in GUI mode.
SBXA-9143	Clicking on a memo field in an output process (/PD.O) closed the form in the XUI clients. The code has been amended to prevent this problem in V6.2.1.
SBXA-9193	On Linux AIX, the /PHYSICAL.PRINTER form was not correct, and attempting to add a new stationary caused the XUI client to fail. This problem has been resolved.
SBXA-9259	A blank row in a grid was not cleared if the user clicked rather than press Tab or Enter to leave the row. With a correction in V6.2.1, the blank row is cleared as expected.
SBXA-9282	If a report had more than 80 columns and the selected printer had a printer class with no stationery types defined (such as DEFAULT.PRINTER and DEFAULT.CLASS), the XUI client logged off. After a code fix, this problem no longer occurs in V6.2.1.
SBXA-9293	V6.2.1 offers a new navigation method, ENO, for the XUI clients. ENO navigation runs Microsoft Outlook-style menus without a horizontal menu at the top of the client window.
SBXA-9315	In the XUI client, value marks were not inserted automatically when the text wrapped onto a new line. The behavior of wrapping and inserting value marks is controlled by the parameters passed to the GUI.TEXT.ED and INVOKE.TEXT.ED processes. This issue has been corrected in V6.2.1.
SBXA-9325	If the IsAutoPositionEnabled property was set to True for the Store Client Form Pos parameter, the location and size settings of custom forms were not honored in XUI mode. This issue was addressed in V6.2.1, and the stored settings are applied as designed.
SBXA-9326	When performing a binary file transfer, SB/XA Rich Client failed when transferring a record that was locked. In V6.2.1, file transfer option K was added to lock the directory type file for binary transfers.
SBXA-9334	At V6.2.1, SB/XA Rich Client and SB/XA Communications Server are certified to run on Microsoft Windows 8 and with Microsoft .NET Framework 4.5. For further information, see Tech Note SBXA-10153. Additionally, SBClient is certified to run on Microsoft Windows 8.
SBXA-9352	In derived fields, a check box (toggle) that was selected in GUI mode was displayed as not selected in the same record in XUI mode. A fix corrects this problem in V6.2.1.
SBXA-9472	A problem occurred with a paragraph that used RTN.FLAG="{fldname}" to jump to a specific field. When the paragraph process was called from a custom control through ExecuteSBPlusProcessInContextCommand, focus jumped to the wrong field. Changes to the code prevent this problem in V6.2.1.

Issue Number	Description
SBXA-9484	Toggles were left-justified in a column in XUI mode, but centered in GUI mode. With a code change in V6.2.1, toggles are centered in a column in both modes.
SBXA-9486	The business intelligence process (/PD.BI) is supported in GUI and XUI modes only. When attempting to run a /PD.BI process in Character mode in V6.2.0, SB/XA returned the error, "DataVu reports can only be run in GUI or XUI." The message text has been changed to "Business intelligence reports can only be run in GUI or XUI."
SBXA-9489	When running an HTML process in the XUI clients, the web page was not displayed until you resized the HTML window. This issue has been fixed in V6.2.1.
SBXA-9505	Label objects could not be hidden in the XUI clients. This issue has been resolved.
SBXA-9510	In the XUI clients, if you attempted to replace an existing toolbar with another toolbar, both the existing and new toolbars were displayed. V6.2.1 implements a fix, and the existing toolbar is replaced by the new toolbar as expected.
SBXA-9521	In SB/XA Rich Client, fields in interleaved multivalue grids flashed or jittered when displayed at a DPI setting of 125%. A fix resolves this issue in V6.2.1.
SBXA-9534	In previous versions, commas in grid column headings caused display problems in GUI mode. V6.2.1 prevents using commas in grid headings and displays a warning message, "Grid heading must not contain a comma."
SBXA-9535	Default print settings for Max Condensed Cols/Rows were missing for A4 and A4LAND stationery types. Default settings for this parameters are now present in V6.2.1.
SBXA-9537	Memo fields with PARAM=2 did not have horizontal scroll bars and did not wrap text. With a fix in V6.2.1, scroll bars and text wrapping work as expected.
SBXA-9539	In memo fields, when a vertical scroll bar was added, it changed the way text was wrapped in XUI mode. To address this problem in V6.2.1, a vertical scroll bar is always displayed in memo fields.
SBXA-9540	Job schedule definitions (/PD.J) phantom processes did not work unless you set the Phantom Sleep Time parameter in SB Control Parameters (/SB.PARMS). The code was amended in V6.2.1 so that job schedule phantom processes work without a Phantom Sleep Time parameter.
SBXA-9545	In multivalued fields, the scroll bar position was incorrect in GUI mode. This problem has been corrected in V6.2.1.
SBXA-9555	V6.2.0 implemented changes to the driver generation process for input screens so that GUI drivers are generated only when running the screen in GUI mode, and XUI drivers are generated only when running the screen in XUI mode. However, scroll bars were generated using a different code path that also wrote to the GUI and XUI drivers. When scroll bars were generated in XUI mode, they were also written to the GUI driver item. This caused a problem because the GUI item was no longer processed correctly before writing the driver. Further changes to the driver processes correct this problem in V6.2.1.
SBXA-9559	At V6.2.1, the business intelligence process (/PD.BI) was added to the Process Definitions menu.
SBXA-9575	A report with break fields either printed with footers after page breaks or caused the XUI client to fail. This issue was resolved in V6.2.1.
SBXA-9578	V6.2.1 supports the ability to assign icons to Favorites and Group Favorites folders in Microsoft Outlook-style menus.
SBXA-9579	In SB/XA Rich Client, database-level messages displayed in the debug window contained repeating letters. A code fix prevents this display problem in V6.2.1.

Issue Number	Description
SBXA-9592	The spell check feature did not work as expected if a context menu with a spelling suggestion list was active and the user right-clicked on a different misspelling in the source file. SB/XA now performs a check when the context menu is opened, and if a list of spelling suggestions exists, SB/XA cleans up the existing list before generating a new list of suggestions.
SBXA-9599	In SB/XA Rich Client running on Microsoft Windows 7, combo boxes displayed values out of position and fields jittered when using a DPI setting of 125%. A fix resolves this issue in V6.2.1.
SBXA-9600	After resizing an F3 lookup window and closing it, the new window size is saved and used the next time the user runs the F3 lookup. In previous versions, if the user increased the depth of the F3 window, the window did not display more rows of data the next time the user ran the lookup. With excess blank space at the bottom of the F3 window, it was not apparent that there were more rows of data on the next page. This issue was addressed in V6.2.1, and the F3 lookup window now displays the correct number of rows based on the last-saved depth of the window.
SBXA-9602	SB/XA V6.2.1 supports the ability to apply XAML styles to Microsoft Outlook-style menus at the menu level.
SBXA-9603	A selection process (/PD.S) with a user subroutine call for indexing purposes repeated datasets in the selection screen at run time in XUI and GUI modes. This issue has been corrected in V6.2.1.
SBXA-9612	Hover help was out of sync with fields in the Group Security Setup (/SEC.GROUP.SETUP) screen. A fix was applied to correct this problem in V6.2.1.
SBXA-9617	In previous versions, translated language text was not shown in the SystemBuilder Explorer (SBX/MPX) menu tree. The code was amended in V6.2.1, and translated text is displayed as designed.
SBXA-9633	In screens with an action bar, if the mouse pointer was positioned over the action bar at run time, focus switched from the first input field to the action bar. The same thing happened when rolling the mouse over the action bar. With a fix in V6.2.1, focus remains at the input field until an action has been selected from the action bar.
SBXA-9647	In V6.1.2 and later, running "HTML,https://....." did not open the target web page. This problem has been corrected in V6.2.1, and an HTML call to an "https://" address opens the web page as expected.
SBXA-9648	In V6.1.3 or later, field labels in a selection process (/PD.S) were not displayed in Character mode. This issue has been resolved in V6.2.1.
SBXA-9652	Running subscreens in GUI mode and in XUI mode corrupted the GUI and XUI drivers, requiring users to clear the drivers after every use. A code fix was applied in V6.2.1, and subscreens run without problems in both modes.
SBXA-9655	Disabling a menu item in an input process definition (/PD.I) sets a property of the item to visual=false in the XUI clients. In V6.1.4 or later, when running the /PD.I process a second time in XUI mode, the disabled menu item was not shown on the menu. In V6.2.1, you can create a custom theme to determine if a disabled menu item is shown as dimmed or removed from the menu display. For further information and an example theme, see Tech Note SBXA-9873.
SBXA-9682	In the XUI clients, multivalued fields with the /GUI.TEXT.ED in a process slot caused problems with cursor positioning. When the user tabbed to a multivalued field and started typing, the cursor was not positioned in the field, but in the middle of the screen. A fix resolves this problem in V6.2.1.

Issue Number	Description
SBXA-9684	In query report definitions (/QRD) with the None - Execute Now option, the report's CHDEFN record had no entry in field 16 and records were added or modified in the DATA portion of the file in certain circumstances. The code was amended to correct this issue in V6.2.1.
SBXA-9691	In SB Control Parameters (/SB.PARMS) > GUI Flags, pressing F3 in the Navigation Method field and selecting the EMO navigation method returned an error. A fix was applied to validate the EMO option in /SB.PARMS, preventing this error in V6.2.1.
SBXA-9730	When using the EMO navigation method, the wrong system ID and description were displayed in the title bar of the main window (MAINWIN). This issue was addressed in V6.2.1, and the correct system ID and description are displayed in EMO mode.
SBXA-9731	The following scripts are now bundled with the XUI clients so that they are installed as part of a standard client installation: ▪ SBXAScriptControls.dll ▪ AxInterop.MSScriptControl.dll ▪ Interop.MSScriptControl.dll When the clients run these scripts, they are no longer downloaded from the server, improving performance.
SBXA-9732	In V6.2.0, the Recent Files list the user's most recently opened items was missing from the File menu in the SB/XA Designer. With a fix in V6.2.1, the Recent Files list is populated as designed.
SBXA-9741	Shifted function keys and action bar selections did not behave correctly in the XUI clients in V6.2.0. The code was corrected to resolve this problem in V6.2.1.
SBXA-9744	In Group Security Setup (/SEC.GROUP.SETUP), the Inhibit /Process Calls field did not list all available options. This problem has been fixed in V6.2.1, and all options are included in the list.
SBXA-9746	In the create file process (/CREATE.FILE) running in XUI mode, the File Name field accepted more than one word and treated the second word as the file type. In response, the XUI client returned an error, "File not created. Invalid type entered." A fix corrects this issue in V6.2.1.
SBXA-9747	In V6.2.0, a flaw in the SB/XA Designer prevented tabbing between fields when creating or modifying a form. This problem has been fixed in V6.2.1, and tabbing works as designed.
SBXA-9754	In the SBDEMO account, the /HK.LEVEL.PARA process did not consider multivalued fields. A new version of the paragraph assigns different styles to single-valued and multivalued fields, correcting this issue in V6.2.1.
SBXA-9757	In menu definitions (/MD), if you deleted a menu option, the corresponding MPX parameters were not deleted. This issue has been resolved in V6.2.1, and the associated parameters are deleted as expected.
SBXA-9769	In the XUI clients, default styles were displayed differently depending on the Conversion Source. For example, the default style for mandatory input field was displayed incorrectly if the Conversion Source was C (Character), but correctly if the Conversion Source was G (GUI). In V6.2.1, the default styles are based on ActualHeight and ActualWidth, and the default styles are displayed correctly regardless of the Conversion Source.
SBXA-9780	When editing existing text in memo type fields in V6.2.0, the cursor jumped over characters so they had to be retyped. The code was amended to correct this problem in V6.2.1.

Issue Number	Description
SBXA-9791	With a setting of messagePriority=Loaded, valid values were not populated in combo boxes on the first tab of a form. A fix was implemented in V6.2.1 to correct this behavior, and the list of values is displayed on the first tab as designed.
SBXA-9792	With an enhancement in V6.2.1, SB/XA supports the ability to register a custom help provider.
SBXA-9794	In V6.1.2 or later, the /SB.GEN.DRIV.O process issued an uninitialized variable error when generating the driver for an output screen. A fix prevents this error in V6.2.1.
SBXA-9814	Customers experienced problems using GET.LIST in Smart Query (/SMART.QUERY) in V6.1.3 or later. On running the query, the results contained the error "401 No Items Found." This issue has been resolved in V6.2.1, and the query returns data as expected.
SBXA-9821	In the XUI clients, calling SB.DISP from the ExecuteSubroutine in the SBPlusClient API caused the client session to hang. If SB.DISP was called inside a subroutine, InputState was changed to Dormant and was not restored to WaitingForInput. The code was corrected to prevent these issues in V6.2.1.
SBXA-9822	In V6.1.3 or later, HTML reports ran very slowly in SB/XA Rich Client. The main processing method that creates the HTML has been optimized in V6.2.1 to dramatically increase the speed.
SBXA-9823	Running a XUI-only form with multilanguage enabled resulted in the following error in the UniData for UNIX edition: "*Filename formname* can only be modified in GUI mode." A fix prevents this error in V6.2.1.
SBXA-9846	If you created a XUI form in the SB/XA Designer and generated a revision control to contain the form, the revision control process produced an entry for a Character counterpart of the XUI form, even though a Character version did not exist. This issue has been corrected in V6.2.1, and the revision control process no longer produces an invalid entry for a Character version of the form.
SBXA-9856	In V6.1.3 or later, when the Set New Password Next Login flag was set to Yes in User Security Setup (/SEC.USER.SETUP), entering a new password at the next login failed in the XUI clients. The new password entered by the user was not validated. The code has been corrected to validate the new password in V6.2.1.
SBXA-9862	In forms containing a combo box with the drawable property set to 0, the combo box is not visible. When the user pressed **Tab** or **Enter** from the previous field in the form, the XUI client failed. This issue was resolved in V6.2.1, and advancing the cursor to the combo box no longer causes the client to fail.
SBXA-9879	If you used arrow keys to advance through cells in a grid, the visual indicator of focus (a broken border) was not placed on the correct cell and @CNT was not updated correctly. The code was modified in V6.2.1 and @CNT now contains the value of the field in focus at all times.
SBXA-9882	Clicking on a grid caused it to lose focus, and the visual indicator of focus (a broken border) was no longer displayed in the current cell. The user had to tab through the grid to see which cell was in focus. This problem has been resolved in V6.2.1, and clicking on a grid does not cause a loss of focus.
SBXA-9895	In forms with a field on the same row as the prompt line (row 22 or 23), if the user attempted to tab to that field, the field did not gain focus in GUI or XUI mode. A change to the way the program processes columns and rows has resolved this problem in V6.2.1, and focus is placed on the field as designed.
SBXA-9959	An incorrect log file was created during Test Connection process in the XUI clients. With a modification in V6.2.1, this process no longer generates an invalid log.

Issue Number	Description
SBXA-9975	In a tabbed screen created in GUI mode, the tabs were displayed correctly in the XUI clients. However, in a tabbed screen created in XUI mode, the tabs were not displayed in the XUI clients. This issue has been resolved, and a tabbed screen can be created in GUI or XUI mode without causing tab display issues in either mode.
SBXA-9979	At V6.2.1, SB/XA Rich Client and SB/XA Communications Server are certified to run on Microsoft Windows Server 2012. For further information, see Tech Note SBXA-10154. Additionally, SBClient is certified to run on Microsoft Windows Server 2012.
SBXA-9983	In V6.2.0, images were not displayed in XUI forms created in the SB/XA Designer. The tile and scale_bmp properties were implemented to correct this problem in V6.2.1.
SBXA-9986	In the SB/XA Designer, users experience problems deleting a function key from Options > Function Keys when shifted function keys were on the same line. This issue has been corrected in V6.2.1.
SBXA-9994	When using the EMO navigation method, programs were closed when clicking on a different system ID in a Microsoft Outlook-style menu. A fix resolves this problem in V6.2.1.
SBXA-9995	Changes to the text and icons for system IDs on Microsoft Outlook-style menus were sometimes lost when logging off or logging between system IDs. Changes to the method of caching Microsoft Outlook-style menus on the client correct this problem in V6.2.1.
SBXA-10019	A change to the processing of SYSTEM(14) and INPUT(-1) in UniBasic code at UniData V7.2.12 caused SBClient file transfers to fail. Additional changes were made at UniData V7.3.3 to support SBClient file transfer processes, and SBClient V6.2.1 has been modified to run on all versions of UniData. **Note:** If you experience this problem in earlier versions of SBClient with UniData V7.2.12, you can either upgrade to UniData V7.3.3, downgrade to an earlier version of UniData, or refer to Tech Note SBXA-9449 for a resolution.
SBXA-10040	In an input screen (/PD.I) that contained a multivalued array built from work variables, if one of the columns of the multivalued array contained a validation that included @REFRESH = -2 in the Process After slot, data was placed in the @RECORD, when it should have been placed only in the @WORK variable. This resulted in data corruption. A fix was implemented to correct this issue in V6.2.1.
SBXA-10048	In the SystemBuilder Explorer (SBX/MPX) , if the user moved a menu item up or down by pressing the F8-Move key in the Menu Definition window, the Heading column in the corresponding SBX Parameters was not moved. This issue has been corrected in V6.2.1.
SBXA-10050	In V6.2.0, customers experienced problems with labels on forms if the Process Before Display slot contained a paragraph process that used SETATTR to set attributes on the label. The code was amended to fix this issue in V6.2.1.
SBXA-10082	When running a Report Writer report via the /SB.REMOTE.PROCESS from a UO.NET connection and work variables were defined in the header, the values of the work variables were not displayed in the output. The work variable names were displayed instead. This issue has been resolved in V6.2.1, and the values of the work variables are displayed in the output as expected.

Issue Number	Description
SBXA-10088	In V5.5.x, when the /SB.REMOTE.PROCESS was passed an invalid SB password, the process produced an "Invalid password" error message and returned to the calling program. In the same scenario in V6.2.0, the /SB.REMOTE.PROCESS displayed an "Access Denied" error message and did not return to the calling program, but disconnected the session. The code was corrected in V6.2.1 so the behavior is the same as that in V5.5.x.

SB/XA v6.2.0 release notes

Build 4056
Release Date: October 2012
These release notes provide information about new features, enhancements, and fixes in SB/XA v6.2.0.

What's new in SB/XA v6.2.0

SB/XA Designer
SB/XA V6.2.0 provides support for screen design in SB/XA Rich Client. Running the screen design (/SD) process in SB/XA Rich Client opens the SB/XA Designer interface, where you can create forms for SB developed applications in an intuitive design environment.

The functionality of the SB/XA Designer running on SB/XA Rich Client is nearly identical to that of the Form Painter running on SBClient. Documentation specific to the SB/XA Designer will be available in the future. In the meantime, refer to "SB Form Painter" in Chapter 7, "Graphical User Interface," in the *SB/XA Reference Manual*.

The SB/XA Designer relies on the capabilities of Microsoft .NET Framework and XAML code. Forms created in SB/XA Designer make the best use of this technology and run in XUI mode only. When you create new XUI forms in the SB/XA Designer, the tool does not create a GUI or Character counterpart.

For further details, see "SB/XA Designer" in *SB/XA New Features*. SBXA-4944

Integration with CorVu NG business intelligence reporting
CorVu NG provides a workspace for designing visually rich reports and deploying them to desktop, web, and mobile users. SB/XA V6.2.0 leverages the power of CorVu NG with a business intelligence process (/PD.BI) that runs a CorVu NG visual report or query against U2 data sources in SB/XA Browser Client or SB/XA Rich Client. For further details about this feature, see "Business Intelligence Process Definitions," in Chapter 3, "Main Tools," in the *SB/XA Application Server Reference Manual*. SBXA-4778

CorVu NG uses the UNNEST command to query U2 data sources in the XUI clients. The U2 SQL engine requires phrase associations on related multivalue dictionary items to run the UNNEST command. Some initial work is required to prepare data for the SB/XA interface to CorVu NG. For details on using the data migration tool, refer to Tech Note SBXA-8205, "Issue Replication System," on the U2 Knowledgebase. SBXA-5129

Styles for mandatory fields and intuitive help
SB/XA Browser Client and SB/XA Rich Client support XAML styles that define the appearance of mandatory fields and fields with intuitive help. These styles give users a visual cue that an input field is mandatory or that intuitive help is available for a field. SB/XA provides a number of predefined styles. You can also write your own custom styles, or write paragraphs or expressions that contain the XAML style name in the @VALUE variable. For details, see "Styles for mandatory fields and intuitive help," in Chapter 9, "XAML Styles and Themes," in the *SB/XA Application Server Reference Manual*. SBXA-4946

Microsoft Outlook-style navigation
SB/XA now offers an option for navigating with Microsoft Outlook-style menus and folders in SB/XA Browser Client and SB/XA Rich Client. The EMO navigation method presents the SBX Explorer as a Microsoft Outlook-style interface along with the main window in the XUI clients. For details, see "Microsoft Outlook-style navigation," in *SB/XA New Features*. SBXA-4946

Vanilla theme

SB/XA V6.2.0 introduces the VanillaSBPlusTheme, with a plain background, simple graphics, and fewer bitmap effects to improve performance when running applications in the XUI clients from Remote Desktop or on a computer with graphics rendering limitations. SB/XA Browser Client and SB/XA Rich Client can be configured to detect conditions that decrease performance and automatically apply the vanilla theme in place of the standard theme in response. For details, see "The vanilla theme option" in Chapter 9, "XAML Styles and Themes," in the *SB/XA Application Server Reference Manual*. SBXA-3446

Object code versioning

This version implements the ability to version SB/XA object code. The object code is now stamped with the version number during the build process. This tool is designed to help technical support and partners track patches at customer sites. For details on this feature, see "SB+ Release Info" in Chapter 5, "Admin Menu," in *Administering SB/XA*. SBXA-8333

New features, enhancements, and fixes in SB/XA V6.2.0

The following issues were addressed in this release:

Issue Number	Description
SBXA-1273	In the Password tab of the User Security Setup (/SEC.USER.SETUP) form, F1 help was added for the Start Sys, Menu, Opt field.
SBXA-1351	F1 and F3 intuitive help were added for all fields in the Group Report Criteria selection screen for the Group Details Report.
SBXA-1384	In the License Details (/SB.LICENSE) and Amend License Details (/AMEND.LICENSE) forms, the Serial Number field no longer validates entries containing nonnumeric characters. The serial number must be entered as an 8-digit number.
SBXA-1534	V6.2.0 implements the following changes to printer defaults: ▪ In the Port Configuration (/TERM.CONFIG) > F9-Default screen, an XPS Printer Name field has been added. The default setting for this field is XPS.PRINTER. ▪ In User Security Setup (/SEC.USER.SETUP) > Printers, the XPS printer name entered in the XUI Printer ID field is used by the XUI clients. The Aux Printer ID is now used only by SBClient. This allows you to have LOGICAL.PRINTER as the Aux Printer ID and XPS.PRINTER as the XUI Printer ID. If no printer has been specified, the XUI clients direct output to the XPS.PRINTER.
SBXA-1795	If you entered account restrictions for a security group and the accounts were not restricted at the parent level, SB/XA did not return an error message. At V6.2.0, an error message explains that if an account is not restricted in the parent group, it cannot be restricted in a child group.
SBXA-1932	If you used the modify process (/MP) to retrieve a global process (such as a paragraph or a selection process) and attempted to print the global process, the Action bar generated a "No Items Present" status in GUI mode. A fix resolves this issue in V6.2.0, and the global process can be selected and printed in GUI mode.
SBXA-2421	As of V6.2.0, the XUI version of the Who Are You? (/WHO) form is built from the GUI version of the form, rather than the character version. This change in the conversion source improves the positioning and alignment of fields on the XUI form.

Issue Number	Description
SBXA-3006	In the procedure to create a field definition (/FD), the F6-Addit > Control/Dep field did not validate entry of a phrase (type PH record). The Control/Dep field allowed you to enter the name of an existing field definition as the name of the multivalue association. In this case, no PH record was created for an association, but field 7 of the field definition was updated to indicate that an association existed, when it did not. After changes in V6.2.0, a phrase entered in the Control/Dep field is validated to verify that it is not the name of an existing phrase, preventing subsequent problems with creating the multivalue association.
SBXA-3262	In SBClient, the SBZ transfer protocol failed in binary and hex modes in the UniData edition on Windows. This issue was resolved in V6.2.0.
SBXA-3288	In previous versions, the Inhibit Logons screen did not validate user IDs entered in the Non Inhibit Users field against DMSECURITY. As of V6.2.0, the program performs validation checking on entries in this field and issues an error if the user ID is not valid.
SBXA-3446	SB/XA V6.2.0 provides the optional VanillaSBPlusTheme, with a plain background, simple graphics, and fewer bitmap effects to improve performance when running applications in the XUI clients from Remote Desktop or on a computer with graphics rendering limitations.
SBXA-3494	SA.TRANSFER.SBPLUS did not transfer the data from DMSECURITY.AUDIT and DMSECURITY.GROUP.AUDIT files during the upgrade process. When these audit files were not copied, SOX audit data was missing from the upgrade. This issue is resolved in V6.2.0, and the audit file content is now copied in an upgrade.
SBXA-3585	When upgrading the UniData edition of SB/XA Application Server for Windows, the installation script issued an error, "Unable to open pointer to old Sauser." This issue has been addressed in V6.2.0, so the SAUSER pointer to the old account is a DIR type only if the old version is 6.0.0 or later.
SBXA-4541	In previous versions, if a field definition used a table definition as the conversion code and the table definition had the Allow Nulls option set to Yes, the Input Code column of the table had to contain a value before you could select "<none>" and store a null value in the record. A code change corrects this problem in V6.2.0.
SBXA-4572	A 32-bit version of the SBXAMAPIBridge component is provided to support TU.MAPI messaging with the 32-bit version of Microsoft Office in SB/XA Browser Client and SB/XA Rich Client. In addition, a 64-bit version of the SBXAMAPIBridge component is provided to support TU.MAPI messaging with the 64-bit version of Microsoft Office in SB/XA Browser Client, SB/XA Rich Client, and SBClient. The SBXAMAPIBridge.msi and SBXAMAPIBridge64.msi program files are available in the SB/XA product download directory.
SBXA-4778	SB/XA V6.2.0 implements a business intelligence process (/PD.BI) that runs a CorVu NG visual report or query against U2 data sources in SB/XA Browser Client or SB/XA Rich Client.
SBXA-4871	The change password (/CHANGE.PWD) process did not validate the password correctly in previous versions. This has been fixed.

Issue Number	Description
SBXA-4933	When running a QRD or Report Writer report and the output destination was "A" for Ask, the printer defined in AUX Printer of User Security Setup (/SEC.USER.SETUP) was displayed as the default. In V6.2.0, a new field "XPS Printer ID" has been added in /SEC.USER.SETUP. In addition, a new field has been added in Port Configuration (/TERM.CONFIG), allowing you to define a default XPS printer systemwide. If both of these settings are left blank, the printer for QRD and Report Writer reports defaults to XPS.PRINTER.
SBXA-4944	At V6.2.0, the SB/XA Designer provides support for screen design in SB/XA Rich Client.
SBXA-4946	SB/XA V6.2.0 offers an option for navigating with Microsoft Outlook-style menus and folders in SB/XA Browser Client and SB/XA Rich Client. The EMO navigation method presents the SBX Explorer as a Microsoft Outlook-style interface along with the main window in the XUI clients.
SBXA-5044	In the XUI clients, footer lines in Report Writer reports were not printed if the output was directed to a physical printer, rather than the XPS Viewer. This issue has been resolved in V6.2.0.
SBXA-5071	When running a process in GUI mode, F3 help returned values incorrectly after sorting. A fix corrects this problem in V6.2.0.
SBXA-5075	SB/XA V6.2.0 implements enhancements to improve the performance of SB/XA Browser Client and SB/XA Rich Client. Installing SB/XA Communications Server now creates a Registry value for TcpAckFrequency in each TCP interface, if it does not already exist, and sets the value to 1. Uninstalling SB/XA Communications Server also removes any values that were set during installation. For further details, see Tech Note SBXA-7943 on the U2 Knowledgebase.
SBXA-5129	A data migration tool is available to help you create multivalue phrase associations that are required for CorVu NG queries. For details on using the data migration tool, refer to Tech Note SBXA-8205, "Issue Replication System," on the U2 Knowledgebase.
SBXA-5167	When performing an F3 Select in a selection process in GUI mode, if you used the icon at the bottom of the selection list in ListView to download the entire list and then pressed the Esc key, the message "No Items Selected" was displayed. This behavior has been corrected in V6.2.0 so that the message is displayed only if you used the P option in the selection process.
SBXA-5222	Using PARAM 12 of the security API in a no-restrictions account returned an error, "Record corrupt, take note before filing." The code has been amended to prevent an error in these circumstances in V6.2.0.
SBXA-5271	In input screens with a mandatory date field containing the syntax "P: (*P484487)" in the Process After slot, an error occurred after the user entered the "+1" key sequence, entered the date, and then pressed Tab. The error message text, "Must enter something," was confusing, because the date field contained data. This issue has been corrected in the GUI and XUI clients, and the conditions described here no longer trigger an error.
SBXA-5272	SB/XA Browser Client and SB/XA Rich Client now support XAML styles that define the appearance of mandatory fields and fields with intuitive help.
SBXA-5312	When users created an account or ran FIX.SBPLUS.POINTERS in previous versions, SB/XA did not add a VOC entry for TUBP and TUINSERT in the account. The create and update processes have been enhanced in V6.2.0 to write these VOC entries to the account.

Issue Number	Description
SBXA-5318	On Windows 7 computers, if the Control Panel > Region and Language > Keyboards and Languages selections were set to Netherlands and Dutch, F3 and XPS Viewer displays were corrupt and caused SB/XA to hang. Several fixes to correct character conversions and a mismatch between the floating point string format on SB/XA Application Server and the client correct this problem in F3 and XPS displays.
SBXA-5338	In the UNIX edition, F3 intuitive help screens in XUI mode were displayed at a small size, obscuring the help text. The code has been amended in V6.1.3, resolving this display issue on UNIX systems.
SBXA-5347	On UNIX systems, the Available Disk Space dialog box displayed the availability statistics incorrectly in the XUI clients. This issue has been resolved in V6.2.0. Note that this dialog box is not implemented for Windows systems, and a "not available" message is displayed.
SBXA-6829	In a selection process (/PD.S) that uses both option E (Display ensign heading text in window) and option T (Display field names as lookup window title), the process description heading conflicted with column headings in Character mode. When the two options are used together in V6.2.0, only the T option is applied in Character mode. This change does not affect GUI and XUI mode, where the two options can be used together to display both types of headings.
SBXA-7902	Pressing the down arrow key on the controlling multivalue field when there was a Process After slot resulted in various behaviors, depending on the version, the presentation mode, and whether you used a grid. GUI behavior: ▪ Grid – Process After was called when down arrow was pressed ▪ Non-grid – Process After was not called when down arrow was pressed XUI behavior: ▪ 6.1.1 – Process After was not called when down arrow was pressed ▪ 6.1.2 – Process After was called when down arrow was pressed To address this issue, a new option has been implemented in V6.2.0. You can add the O option to the Process After slot so that the process is called only if the data has changed or if you press Enter to leave the field.
SBXA-7906	An input screen with nothing but toggle fields behaved incorrectly in GUI mode. When you executed an input screen with multiple toggle objects in the GUI client and selected one toggle object, a second toggle object was also displayed as though it had been selected. This issue has been resolved in V6.2.0.
SBXA-7986	In an input screen with a multivalued grid, the controlling multivalue field was a derived field defined with six rows of data, but displayed only two rows of data in the XUI clients. A section of code was revised to fix this problem in V6.2.0.
SBXA-7993	A "not found" error message was displayed when executing the primary screen of two tabbed screens in XUI mode. When running the input screen I*S7895*MT100.1, SB/XA returned the message, "MT101.1 not found," before the primary screen was displayed. The form screen was MT100.1, rather than MT101.1 as indicated in the message.

Issue Number	Description
SBXA-7995	In an input screen with a multivalued grid, using the backslash character (\) to delete a row and then clicking another column of the grid before pressing Enter produced the following unexpected results: ▪ In character mode, the values in the deleted row were displayed in the heading of the column you clicked, and pressing Esc (Escape) to exit had no effect. ▪ In GUI mode, the data values for the column you clicked were displayed in other columns, and pressing Esc to exit had no effect. ▪ In XUI mode, the row was deleted, but the grid was no longer in focus. If you then clicked on the first column of the grid, the client returned an error and the data in another column of the grid was corrupted. Changes to grid controls correct these behaviors in character, GUI, and XUI modes in V6.2.0.
SBXA-7999	In previous versions, an ActiveX control caused SBClient to fail. This issue is resolved in V6.2.0.
SBXA-8021	A new field in SB Control Parameters (/SB.PARMS) enables you to specify the number of seconds of delay for starting phantom processes. If you leave this field blank, SB/XA uses the default value of 3 seconds.
SBXA-8039	If you defined an auxiliary (Aux) printer in Port Configuration (/TERM.CONFIG) and specified a different Aux printer for a user in User Security Setup (/SEC.USER.SETUP), the user's Aux printer setting did not override the default Aux printer setting for the port. To address this issue in V6.2.0, the Port Configuration settings are used only if no Aux printer is specified in the user security record. In addition, the fallback printers have been changed. If no Aux printer is defined in the user security record or in /TERM.CONFIG, the Aux printer defaults to LOGICAL.PRINTER rather than DEFAULT.PRINTER. For XPS printing, the XPS printer defaults to XPS.PRINTER.
SBXA-8094	In some cases, display fields in a multivalued grid did not display data in the XUI clients. This issue has been corrected.
SBXA-8140	In grids containing (1) a controlling multivalue field with two input columns and (2) a process to determine default values in the field definition for the input column, the default values were not populated correctly. This issue has been resolved in V6.2.0, and the default values are populated and displayed correctly in the grid.
SBXA-8142	In SBClient, the /CHANGE.PWD process failed if the user attempted to change the password on initial login. The password process failed due to two separate problems in related areas: ▪ The passwords of users created in the GUI client in previous builds were corrupted. ▪ The /CHANGE.PWD process encountered problems if the user's original password contained lowercase characters. Both problems have been resolved in V6.2.0, and changing the password in SBClient no longer produces an error.
SBXA-8179	After starting SB/XA Rich Client, the Connect to Application dialog box sometimes returned the error, "Failed to get the list of applications." The connection routine has been corrected to prevent this error condition in V6.2.0.

Issue Number	Description
SBXA-8192	In V6.1.2, each server session from the XUI client attempted to read the socket every two milliseconds (ms) when idle, resulting in high CPU utilization. In V6.2.0, you can configure the socket time-out in SB Control Parameters (/SB.PARMS) > Socket Options > Socket Timeout. In addition, the default value of this time-out has been changed from 2ms to 1000ms. The default setting applies if no value is specified in the Socket Timeout parameter in the /SB.PARMS record.
SBXA-8210	When exporting the SB/XA client configuration, the debug path was not exported along with the rest of the configuration details. In V6.2.0, the debug path is included in the export.
SBXA-8264	With Smart Refresh enabled, paragraph statements were unable to start phantom processes in XUI mode. This issue has been resolved.
SBXA-8272	With the Auto Accept Toggles flag set to Tab in SB Control Parameters (/SB.PARMS), pressing **Enter** in a check box without selecting it produced an "Invalid Code" error in XUI mode. A fix was applied in V6.2.0, correcting the behavior in the XUI clients.
SBXA-8294	In GUI mode, if you pressed F3 in a numeric field with a comma separator, the values were displayed incorrectly as zeroes. A fix resolves this problem in V6.2.0.
SBXA-8333	V6.2.0 supports the ability to version SB/XA object code. The object code is now stamped with the version number during the build process. In addition, the /SB.INFO process has been enhanced so the center part of the screen that formerly displayed the Patch No and Date Applied fields now contains File, Item ID, Version, Platform, Date, and Time fields from the stamping process. A file is included in the list if its version number does not match the version number of the installed product. With version stamping, object code patches to the SB/XA Application Server can be easily detected and verified.
SBXA-8373	During login to SB/XA for UniData on the GUI client, an "unassigned variable" message was displayed between input of user name and password. This issue has been resolved.
SBXA-8378	The TU.FILE.INFO subroutine works only when run on the XUI clients. When this host routine was executed on the character and GUI clients, it returned an incorrect status code of 0, indicating that the file was found, even if the file was not on the client computer. After a change in V6.2.0, running TU.FILE.INFO on the character and GUI clients returns a status code of 1 and an error message indicating that this host routine runs only on the XUI clients.
SBXA-8398	The SB/XA V6.2.0 splash screen and product setup menu are rebranded with the purple graphic for Database Servers and Tools. The SBClient splash screens and launchpad are also rebranded with the same graphic.
SBXA-8418	When calling phantoms from a paragraph (/PD.P) process, if the paragraph process included a loop, some of the phantom processes did not run successfully. This issue has been resolved.
SBXA-8421	The umask setting caused problems with file access in the SB/XA for UniData edition on UNIX. This edition does not get umask settings from a user's profile. Instead, it uses the default setting in the startud script. To address the problem, change the setting to umask=007 or umask=002 in the startud script.
SBXA-8480	In User Security Setup (/SEC.USER.SETUP) and Group Security Setup (/SEC.GROUP.SETUP), the F3 intuitive help for the user ID or group ID did not display users or groups in a tree hierarchy in GUI mode, as designed. A fix was applied to display intuitive help in a tree format in GUI and Character modes. Similar functionality was added in XUI mode, where intuitive help for the user ID or group ID is now displayed in a standard grid.

Issue Number	Description
SBXA-8481	If you used SETATTR to set the G.EMPHASIZED attribute on a label that was painted on a form, the label text was not de-emphasized when the label was not in focus in XUI mode. A fix was applied in V6.2.0, and the label text is now de-emphasized when the label is not in focus.
SBXA-8515	In forms with a GUI conversion source, @REFRESH=7 inserted spaces before the SBValue in SB/XA Rich Client. A flag named "Trim Spaces from Fields" has been added in SB Control Parameters (/SB.PARMS) > XUI Parms to correct this problem in V6.2.0.
SBXA-8540	After a DISP message dialog box was displayed from an SB/XA screen, the message dialog box disappeared from view and could not be accessed. The only solution was to terminate the XUI session through the Task Manager. A correction was applied in V6.2.0, and the message dialog box no longer disappears from display.
SBXA-8541	A dialog box with option button text containing an ampersand (&) character caused SB/XA Rich Client to fail. The code has been corrected, and the ampersand can be used in option button text without problems in V6.2.0.
SBXA-8547	When using the GUI Text Editor (/GUI.TEXT.ED) in GUI mode, if a memo field contained 465 characters or more, char(10) was not inserted between rows. The code has been amended to correct this issue in V6.2.0.
SBXA-8582	Phantom processes did not run if the Inhibit Shell Access flag was set to Y and the Inhibit /Process Calls flag was set to A in Group Security Setup (/SEC.GROUP.SETUP). The code was enhanced to address this issue in V6.2.0.
SBXA-8633	A subroutine that used the Group Security API (SH.SEC.API) set the value of the Inhibit Process Calls flag incorrectly. In addition, an error occurred if you attempted to log in with the user ID of a member of the group that was just updated through SH.SEC.API. Both of these problems have been resolved.
SBXA-8647	In Group Security Setup (/SEC.GROUP.SETUP), if the Inhibit Shell Access flag was set to Y and the Inhibit /Process Calls flag was set to J, the settings were incorrect after performing a LOGTO. A fix resolves this issue in V6.2.0.
SBXA-8697	The GUI text editor (/GUI.TEXT.ED) failed in XUI mode when value marks were inserted in F3 intuitive help. The code has been amended to prevent this problem in the XUI clients.
SBXA-8698	In an account with a least two system IDs, users were able to run a phantom process only in the system ID in which the phantom was initiated. With an enhancement in V6.2.0, phantoms run from any system ID in the account.
SBXA-8712	In UNIX editions running on SB/XA Rich Client, entering an invalid operating system password produced an error in a .NET dialog box. After dismissing the error dialog box, the SB/XA Login dialog box was displayed. The code was corrected so the behavior is now the same as in Windows editions: the error is returned in a Windows dialog box and the U2 Database Server Login dialog box is displayed.
SBXA-8734	In the UniData edition, listing the APPLICATIONS attribute in DMSECURITY produced an "Illegal attribute name" error. The code was corrected to prevent this error in V6.2.0.
SBXA-8744	In XUI mode, if the input field just before a toggle field had a process in the Process After slot and the paragraph contained @REFRESH=2, the toggle field produced the error, "Invalid Code <Enter> Then try F3." Fixes were applied to the server code in V6.2.0 to prevent this error condition.

Issue Number	Description
SBXA-8763	When the clients were configured by using the common configuration file, SBXAConfiguration.xml, they connected to an SB/XA Communications Server other than the default. The code has been corrected in V6.2.0, and the clients connect to the default SB/XA Communications Server specified in the common configuration file.
SBXA-8773	In some cases, toggle controls (check boxes) could not be cleared in GUI mode. This issue was corrected in V6.2.0, and check boxes can be cleared as expected.
SBXA-8776	The position of F3 selection screens was not saved in XUI mode. V6.2.0 implements multiple fixes to correct related problems, and the position coordinates and column width in XUI selection screens are now stored for the next use.
SBXA-8777	In GUI mode, the value in toggle control fields was saved incorrectly as 1 when the check box was selected and 0 when cleared. The code has been corrected so that values are saved as 0 when the check box is selected and 1 when cleared.
SBXA-8831	When using the EMX navigation method in SB/XA Browser Client, a process in the Process After Display on SBMENU did not run. This issue has been resolved in V6.2.0.
SBXA-8833	The GUI text editor (/GUI.TEXT.ED) failed in GUI mode when value marks were inserted in F3 intuitive help. The code has been amended to prevent this problem in GUI mode.
SBXA-8875	A flaw in the @REFRESH=2 variable caused incorrect data to be displayed in the Update An Account (/UPDATE.ACCOUNT) form. The COMMON variable code has been fixed to correct this problem in V6.2.0.
SBXA-8880	The SB.REMOTE.PROCESS encountered problems when attempting to save file handles as part of preserving COMMON. In V6.2.0, SB.REMOTE.PROCESS no longer attempts to save the file handles.
SBXA-8893	In SBClient, a toggle in a grid returned an error if it used a table definition with three different values in the internal code, display text, and input code and if Allow NULL was set to N in a validation. Both client and server code were amended to prevent this error condition in V6.2.0.
SBXA-8894	The SB.DISP.BOXTEXT subroutine did not display text correctly if the tilde (~) character was included in the string. In Character mode, the ~ character was not printed and text was truncated at approximately 124 characters. In GUI and XUI modes, the ~ character was not printed, but text was not truncated. With a correction in V6.2.0, the ~ character is printed and the text is no longer truncated.
SBXA-8940	In a process definition (/PD.P), if you used SETATTR to set the string property of a button with a value that contained an ampersand (&) character, the & character was displayed in XUI mode instead of being parsed as the flag for the hot key. The code has been amended and the & character is interpreted as the flag for a hot key, as designed.
SBXA-8944	Pressing Ctrl + End in a memo field with data caused SB/XA Rich Client to fail. A fix was applied to correct this problem in V6.2.0.
SBXA-9004	If an input process (/PD.I) with the O (Output only) option contained a memo field and a toolbar, selecting a button on the toolbar caused the XUI client to fail. This issue has been resolved.
SBXA-9084	In the NoFocusContextMenu.xaml code, the messages "Put focus to field first for context menu" and "Click to open or close menu tree" were hard-coded in English and could not be translated to other languages. These two phrases are now referenced in the sbplusstrings.de-CH.restext and sbplusstrings.en-us.restext files so they can be translated.

Issue Number	Description
SBXA-9086	SB/XA Communications Server was unable to connect to SB/XA Administration Server if the administration server computer was known only by its IP address. SB/XA V6.2.0 has upgraded to a new UODOTNET.dll that recognizes the computer's IP address or host name.
SBXA-9108	In SBClient running on Microsoft Windows 7 or Windows 2008 x64, selecting View > Clipboard Viewer returned the error "CreateProcess 'clipbrd.exe' failed. error(2) - file not found." The clipbrd.exe file is not supplied with Microsoft Windows 7 or Windows 2008, so the View > Clipboard Viewer option has been removed from the menu in SBClient.

As part of this change, a paragraph regarding the Clipboard Viewer has been deleted from Chapter 1, "Introduction to SBClient," in the *Using SBClient* manual. |
SBXA-9138	The SBClient device licensing dynamic link library (DLL) has been updated to version 3.2.1.0.
SBXA-9199	In Report Writer reports output to DIFF, spaces were missing from custom column headings that were painted in the report definition. A code fix corrects this problem in V6.2.0.
SBXA-9207	If /VALIDATE.USER and /PASSWORD.VALIDATION functionality were set up as documented in the Developer Zone article "How To Deploy SB+ Password Validation," the /CHANGE.PWD process failed to verify the new password. With a correction in V6.2.0, the /CHANGE.PWD process verifies the new password as expected. No change to the setup steps is required.
SBXA-9218	Check boxes (toggles) on a subscreen did not work correctly in a multivalue group in GUI mode. This issue is resolved in V6.2.0.
SBXA-9239	With the Auto Extend Field Length flag set to N, Ctrl + End did not auto-extend the field length in multivalued fields in XUI mode. A fix resolves this issue in V6.2.0, and the auto-extend feature works as designed.
SBXA-9306	In the SBXA Documentation.chm file, the topic "Define an Assembly" contains a correction. The line "This process includes uploading the assembly into the xxResources file," has been changed to "This process includes uploading the assembly into the SAUSER file." This .chm file is available in the Extra folder of the product download directory.
SBXA-9410	In the XUI clients, the default Security option was changed from Message to Transport at V6.2.0. To set the Security option, click Options > Configuration in the client main window. In the SB/XA Client Configuration form, click the Communications Server Connections tab and select an option from the Security list.

SB/XA v6.1.4 release notes

Build 3427
Release Date: November 2012
These release notes provide information about enhancements and fixes in SB/XA v6.1.4.

What's new in SB/XA v6.1.4

Performance enhancements for XUI clients
SB/XA V6.1.4 implements enhancements to improve the performance of SB/XA Browser Client and SB/XA Rich Client. Installing SB/XA Communications Server now creates a Registry value in each TCP interface. For further information, see this item in the notes that follow. SBXA-5075

XPS mail class made public

The SBMailXPS class has been made public so that you can create templates from it. The SBMailXPS.xaml file is available in the Extra folder in the product download directory. SBXA-9305

Enhancements and fixes in SB/XA v6.1.4

The following issues were addressed in this release:

Issue Number	Description
SBXA-3494	SA.TRANSFER.SBPLUS did not transfer the data from DMSECURITY.AUDIT and DMSECURITY.GROUP.AUDIT files during the upgrade process. When these audit files were not copied, SOX audit data was missing from the upgrade. This issue is resolved in V6.1.4, and the audit file content is now copied in an upgrade.
SBXA-4541	In previous versions, if a field definition used a table definition as the conversion code and the table definition had the Allow Nulls option set to Yes, the Input Code column of the table had to contain a value before you could select "<none>" and store a null value in the record. A code change corrects this problem in V6.1.4.
SBXA-4556	In V6.1.0 and later, screen sizes and positions were lost when the client cache was cleared, and there was no parameter to control this behavior. In V6.1.2, a flag to save screen size and position has been added at the SB instance level in SB Control Parameters (/SB.PARMS), at the system level in the System Control Record (/HK.CONTROL), and at the user level in User Flags (/USER.FLAGS). In addition, the following new processes have been created: ▪ CLEAN.MY.POSCACHE – Deletes the DMPOSCACHE item for the current user. ▪ CLEAN.POSCACHE – Prompts for the user whose cache is to be cleared. ▪ CLEAN.ALL.POSCACHE – Deletes DMPOSCACHE items for all users. Note that after clearing the client cache, you must log off and log on again to restore the server cache.
SBXA-4572	A 32-bit version of the SBXAMAPIBridge component is provided to support TU.MAPI messaging with the 32-bit version of Microsoft Office in SB/XA Browser Client and SB/XA Rich Client. In addition, a 64-bit version of the SBXAMAPIBridge component is provided to support TU.MAPI messaging with the 64-bit version of Microsoft Office in SB/XA Browser Client, SB/XA Rich Client, and SBClient. The SBXAMAPIBridge.msi and SBXAMAPIBridge64.msi program files are available in the SB/XA product download directory.
SBXA-4706	Multilanguage support has been implemented for the SystemBuilder Explorer (SBX/MPX) menu in GUI and XUI modes. A new screen called MPX Text has been added to the /TRANSLATE feature. It is accessed as the last option after selecting the language. The new screen consists of four elements: ▪ The number of the attribute in MPX.TEXT to be translated. ▪ A display-only field indicating the language of the text that is being translated. ▪ The text from the original MPX.TEXT item in DMCONT for this attribute. ▪ The translated text. The MPX.TEXT item is created by this screen and stored in DMLANGUAGE.XX. If you set a language code in user flags, the server reads MPX.TEXT from the appropriate DMLANGUAGE.XX and sends it down to the client.

Issue Number	Description
SBXA-4853	If you used a centralized client configuration file to set up SB/XA workstations, the default application was not set correctly. The fix to a related problem corrects the issue of setting the default application in V6.1.4.
SBXA-4989	When the Reg No field in the Branch Car Enquiry screen was blank, SBClient and the XUI clients returned Car Hire History details for the previous inquiry. This issue is resolved in V6.1.4.
SBXA-5071	When running a process in GUI mode, F3 help returned values incorrectly after sorting. A fix corrects this problem in V6.1.4.
SBXA-5075	SB/XA V6.1.4 implements enhancements to improve the performance of SB/XA Browser Client and SB/XA Rich Client. Installing SB/XA Communications Server now creates a Registry value for TcpAckFrequency in each TCP interface, if it does not already exist, and sets the value to 1. Uninstalling SB/XA Communications Server also removes any values that were set during installation. For further details, see Tech Note SBXA-7943 on the U2 Knowledgebase.
SBXA-5267	In XUI mode, the Admin > Files > View File Data > List All File Names option returned the list of file names in an error message format that was difficult to read. The List All File Names function has been changed in V6.1.4 so it runs the HK.FILES.O process and displays the file names in a grid.
SBXA-8028	If users tabbed or clicked the mouse quickly between fields in the XUI clients, focus was lost and data was displayed in the wrong fields. A fix prevents this problem in V6.1.4.
SBXA-8076	Changes made to the account restrictions in Group Security Setup (/SEC.GROUP.SETUP) did not generate audit records in the DMSECURITY.GROUP.AUDIT file. This issue has been corrected in V6.1.4, and the audit records are generated as expected.
SBXA-8100	If a field has custom validation and is defined as a toggle inside of a grid, the XUI clients did not display the field as a check box. This behavior has been corrected, so the field is displayed as a check box in XUI mode, the same as in GUI mode. However, be aware that the behavior of a toggle with custom validation is not identical to that of a toggle without custom validation.
SBXA-8140	In grids containing (1) a controlling multivalue field with two input columns and (2) a process to determine default values in the field definition for the input column, the default values were not populated correctly. This issue has been resolved in V6.1.4, and the default values are populated and displayed correctly in the grid.
SBXA-8142	In SBClient, the /CHANGE.PWD process failed if the user attempted to change the password on initial login. The password process failed due to two separate problems in related areas: ▪ The passwords of users created in the GUI client in previous builds were corrupted. ▪ The /CHANGE.PWD process encountered problems if the user's original password contained lowercase characters. Both problems have been resolved in V6.1.4, and changing the password in SBClient no longer produces an error.
SBXA-8151	In paragraph (/PD.P) processes, the G.FOREGROUND property did not work to set the foreground color in XUI mode. A fix was applied to correct this problem in V6.1.4.
SBXA-8157	If a hot key was defined for a radio button, Alt + hot key did not work to select the radio button in XUI mode. This issue has been fixed.

Issue Number	Description
SBXA-8179	After starting SB/XA Rich Client, the Connect to Application dialog box sometimes returned the error, "Failed to get the list of applications." The connection routine has been corrected to prevent this error condition in V6.1.4.
SBXA-8210	When exporting the SB/XA client configuration, the debug path was not exported along with the rest of the configuration details. In V6.1.4, the debug path is included in the export.
SBXA-8264	With Smart Refresh enabled, phantom processes could not be started in XUI mode. This issue has been resolved.
SBXA-8272	With the Auto Accept Toggles flag set to Tab in SB Control Parameters (/ SB.PARMS), pressing **Enter** in a check box without selecting it produced an "Invalid Code" error in XUI mode. A fix was applied in V6.1.4, correcting the behavior in the XUI clients.
SBXA-8274	Changing the column heading in a grid did not work in versions 6.1.2 and 6.1.3. The code has been amended to correct this problem in V6.1.4.
SBXA-8284	In an input screen (/PD.I) that executes two subordinate input screens, pressing F2 quickly on the first subordinate screen returned the second subscreen instead. This behavior has been corrected in V6.1.4, and the first subordinate screen is displayed as expected.
SBXA-8294	In GUI mode, if you pressed F3 in a numeric field with a comma separator, the values were displayed incorrectly as zeroes. A fix resolves this problem in V6.2.0.
SBXA-8421	The umask setting caused problems with file access in the SB/XA for UniData edition on UNIX. SB/XA does not get umask settings from a user's profile. Instead, it uses the default setting in the startud or startunirpcd script. To address the problem, change the setting to umask=007 or umask=002 in the startud or startunirpcd script.
SBXA-8445	When a code table was used with a combo box, the stored data was not displayed in XUI mode. This issue has been resolved in V6.1.4.
SBXA-8450	If you set up a report definition to print to the XPS printer on LETTERLAND stationery by default and then changed to LETTER stationery at run time, the report printed in landscape rather than portrait orientation. To address this issue, a new screen available from Report Definitions (/PD.R) > F9-Additional > F7-XPS Parameters captures XPS-specific printer parameters. These parameters serve as a default for the report, and can be overridden at run time using the selection screen.
SBXA-8464	In V6.1.3, if /USER.FLAGS > GUI Prefs > Center GUI Screens was set to Y, the position of tabbed forms was not saved in the client cache. This issue has been fixed in V6.1.4.
SBXA-8466	Combo boxes that used a code table containing the same value for both an internal code and an input code returned the wrong value if you pressed Tab to leave the field. This behavior has been corrected in V6.1.4.
SBXA-8480	In User Security Setup (/SEC.USER.SETUP) and Group Security Setup (/ SEC.GROUP.SETUP), the F3 intuitive help for the user ID or group ID did not display users or groups in a tree hierarchy in GUI mode, as designed. A fix was applied to display intuitive help in a tree format in GUI and Character modes. Similar functionality was added in XUI mode, where intuitive help for the user ID or group ID is now displayed in a standard grid.
SBXA-8481	If you used SETATTR to set the G.EMPHASIZED attribute on a label that was painted on a form, the label text was not de-emphasized when the label was not in focus. A fix was applied in V6.1.4, and the label text is now de-emphasized when the label is not in focus.

Issue Number	Description
SBXA-8488	In selection processes (/PD.S), if a multivalued field had intuitive help, a GUI.TEXT.ED process in the Process Before slot, and a paragraph in the Process After slot that performed a REFRESH=2, the data in the multivalued field was corrupted on pressing the X or Cancel button to leave the intuitive help selection window. The code was amended in V6.1.4, and data is no longer corrupted on exiting from intuitive help.
SBXA-8495	Using SETATTR to set the G.EMPHASIZED attribute on a column in a grid did not work correctly in XUI mode. The multivalued field was enabled and accepted updates. With a correction in V6.1.4, the multivalued field is disabled as intended.
SBXA-8496	In tabbed forms, pressing F2 on the last tab saved and closed the form in GUI mode, but displayed the next-to-last tab in XUI mode. The behavior has been corrected in V6.1.4 so that pressing F2 on the last tab saves and closes the form in all modes.
SBXA-8514	If you set the title property of a form in /SD > Form Properties and set the description on the input process (/PD.I) record, the title property from the GUIOBJECTDEFINITION was used in GUI mode, but the description from the /PD.I record was used in XUI mode. The behavior in V6.1.4 is the same for GUI and XUI clients: ▪ If you define a title in Form Properties, that title is used on the form. ▪ If you do not define a title in Form Properties, the description in the /PD.I is used as the title of the form instead.
SBXA-8515	In forms with a GUI conversion source, @REFRESH=7 inserted spaces before the SBValue in SB/XA Rich Client. A flag named Trim Spaces from Fields has been added in SB Control Parameters (/SB.PARMS) > XUI Parms to correct this problem in V6.1.4.
SBXA-8540	After a DISP message dialog box was displayed from an SB/XA screen, the message dialog box disappeared from view and could not be accessed. The only solution was to terminate the XUI session through the Task Manager. A correction was applied in V6.1.4, and the message dialog box no longer disappears from display.
SBXA-8541	A dialog box with option button text containing an ampersand (&) character caused SB/XA Rich Client to fail. The code has been corrected, and the ampersand can be used in option button text without problems in V6.1.4.
SBXA-8547	When using the GUI Text Editor (/GUI.TEXT.ED) in GUI mode, if a memo field contained 465 characters or more, char(10) was not inserted between rows. The code has been amended to correct this issue in V6.1.4.
SBXA-8556	On UNIX/Linux operating systems, entering an invalid password returned a "Unable to connect to SB/XA" error message from Microsoft .NET in the XUI clients. The fix to a related issue corrects this problem, and the XUI clients now display the correct error message.
SBXA-8565	In input (/PD.I) processes that use the O option, fields should have been display-only, but were editable. A fix was applied, resolving this problem in V6.1.4.
SBXA-8582	Phantom processes did not run if the Inhibit Shell Access flag was set to Y (Yes) and the Inhibit /Process Calls flag was set to A (Prevent all / process calls from inputs) in Group Security Setup (/SEC.GROUP.SETUP). You can now set the Inhibit /Process Calls flag to the new option J (Prevent all / process calls from inputs, except Job Schedule Definitions) to run phantom processes in this situation.

Issue Number	Description
SBXA-8611	The /SB.REMOTE.PROCESS did not work when it was run from UniObjects, preventing the ability to connect to SB developed applications from UniObjects. A fix was applied in V6.1.4, and remote process calls from UniObjects run as designed.
SBXA-8633	A subroutine that used the Group Security API (SH.SEC.API) set the value of the Inhibit Process Calls flag incorrectly. In addition, an error occurred if you attempted to log in with the user ID of a member of the group that was just updated through SH.SEC.API. Both of these problems have been resolved.
SBXA-8639	Keyboard buffering caused problems with using hot keys for radio buttons in XUI mode. This issue has been resolved.
SBXA-8646	Using SETATTR to set the G.EMPHASIZED attribute on a column in a grid gave no visual indication that the column was disabled. In V6.1.4, the column is displayed with a gray background to indicate that it is disabled.
SBXA-8658	The GUI text editor failed in XUI mode when using F3 intuitive help to populate a field. This issue has been corrected in V6.1.4.
SBXA-8697	The GUI text editor failed in XUI mode when value marks were inserted in F3 intuitive help. The code has been amended to prevent this problem in the XUI clients.
SBXA-8698	In an account with a least two system IDs, users were able to run a phantom process only in the system ID in which the phantom was initiated. With an enhancement in V6.1.4, phantoms run from any system ID in the account.
SBXA-8709	If a tabbed form was called from the Process At Start slot in SBMENU, the tabbed form ran, but caused the XUI client to hang. This issue has been resolved in V6.1.4.
SBXA-8712	In UNIX editions running on SB/XA Rich Client, entering an invalid operating system password produced an error in a .NET dialog box. After dismissing the error dialog box, the SB/XA Login dialog box was displayed. The code was corrected so the behavior is now the same as in Windows editions: the error is returned in a Windows dialog box and the U2 Database Server Login dialog box is displayed.
SBXA-8727	In forms with multiple groups of radio buttons that used the same code table, if you placed focus on one of the radio buttons and then used the hot key to select one of the buttons, the button with that hot key was selected in all the groups of radio buttons.
SBXA-8734	In the UniData edition, listing the APPLICATIONS attribute in DMSECURITY produced an "Illegal attribute name" error. The code was corrected to prevent this error in V6.1.4.
SBXA-8744	In XUI mode, if the input field just before a toggle field had a process in the Process After slot and the paragraph contained @REFRESH=2, the toggle field produced the error, "Invalid Code <Enter> Then try F3." Fixes were applied to the server code in V6.1.4 to prevent this error condition.
SBXA-8751	In multivalue grids with RTN.FLAG=S, values were displayed incorrectly when pressing Return to advance though the grid in XUI mode. This issue is resolved in V6.1.4.
SBXA-8763	When the clients were configured by using the common configuration file, SBXAConfiguration.xml, they connected to an SB/XA Communications Server other than the default. The code has been corrected in V6.1.4, and the clients connect to the default SB/XA Communications Server specified in the common configuration file.
SBXA-8773	In some cases, toggle controls (check boxes) could not be cleared in GUI mode. This issue was corrected in V6.1.4, and check boxes can be cleared as expected.

Issue Number	Description
SBXA-8776	The position of F3 selection screens was not saved in XUI mode. V6.1.4 implements multiple fixes to correct related problems, and the position coordinates and column width in XUI selection screens are now stored for the next use.
SBXA-8777	In GUI mode, the value in toggle control fields was saved incorrectly as 1 when the check box was selected and 0 when cleared. The code has been corrected so that values are saved as 0 when the check box is selected and 1 when cleared.
SBXA-8831	When using the EMX navigation method in SB/XA Browser Client, a process in the Process After Display on SBMENU did not run. This issue has been resolved in V6.1.4.
SBXA-8833	The GUI text editor (/GUI.TEXT.ED) failed in GUI mode when value marks were inserted in F3 intuitive help. The code has been amended to prevent this problem in GUI mode.
SBXA-8875	A flaw in the @REFRESH=2 variable caused incorrect data to be displayed in the Update An Account (/UPDATE.ACCOUNT) form. The COMMON variable code has been fixed to correct this problem in V6.1.4.
SBXA-8879	The SBClient V6.1.4 launch screen is rebranded with the purple graphic for Database Servers and Tools.
SBXA-8880	The SB.REMOTE.PROCESS encountered problems when attempting to save file handles as part of preserving COMMON. In V6.1.4, SB.REMOTE.PROCESS no longer attempts to save the file handles.
SBXA-8884	Accepting changes to a subscreen that was called from a GUI click process saved the record. The code has been corrected so that changes to the subscreen are accepted without saving the record.
SBXA-8893	In SBClient, a toggle in a grid returned an error if it used a table definition with three different values in the internal code, display text, and input code and if Allow NULL was set to N in a validation. Both client and server code were amended to prevent this error condition in V6.1.4.
SBXA-8894	The SB.DISP.BOXTEXT subroutine did not display text correctly if the tilde (~) character was included in the string. In Character mode, the ~ character was not printed and text was truncated at approximately 124 characters. In GUI and XUI modes, the ~ character was not printed, but text was not truncated. With a correction in V6.1.4, the ~ character is printed and the text is no longer truncated.
SBXA-8910	The TU.PC.LOAD routine did not run in the XUI clients. V6.1.4 implements support for TU.PC.LOAD in XUI mode, with certain restrictions: • Options D, E, R, and S are not supported. • Option H is implemented as the default. • Separator Mode = 0 is not supported.
SBXA-8940	In a process definition (/PD.P), if you used SETATTR to set the string property of a button with a value that contained an ampersand (&) character, the & character was displayed in XUI mode instead of being parsed as the flag for the hot key. The code has been amended and the & character is interpreted as the flag for a hot key, as designed.
SBXA-8944	Pressing Ctrl + End in a memo field with data caused SB/XA Rich Client to fail. A fix was applied to correct this problem in V6.1.4.
SBXA-8958	When the last object on a form was a toggle object that was hidden with SETATTR, pressing F2 closed the form in XUI mode. With a fix in V6.1.4, the form remains open after pressing F2 in XUI mode, the same as in GUI mode.

Issue Number	Description
SBXA-9004	If an input process (/PD.I) with the O (Output only) option contained a memo field and a toolbar, selecting a button on the toolbar caused the XUI client to fail. This issue has been resolved.
SBXA-9071	Pressing F3 for help in memo fields caused text to be duplicated in XUI mode. A fix corrects this issue in V6.1.4.
SBXA-9078	In input screens containing a grid with three columns of toggle objects, SB/XA Rich Client failed and returned a nonrecoverable error. A fix has been applied to prevent the XUI client from failing under these conditions in V6.1.4.
SBXA-9084	In the NoFocusContextMenu.xaml code, the messages "Put focus to field first for context menu" and "Click to open or close menu tree" were hard-coded in English and could not be translated to other languages. These two phrases are now referenced in the sbplusstrings.de-CH.restext and sbplusstrings.en-us.restext files so they can be translated.
SBXA-9086	SB/XA Communications Server was unable to connect to SB/XA Administration Server if the administration server computer was known only by its IP address. SB/XA V6.1.4 has upgraded to a new UODOTNET.dll that recognizes the computer's IP address or host name.
SBXA-9124	In input processes (/PD.I), check boxes (toggles) required two mouse clicks to initiate the expected action in GUI and XUI modes. This behavior has been corrected in V6.1.4, and one mouse click initiates the action.
SBXA-9138	The SBClient device licensing dynamic link library (DLL) has been updated to version 3.2.1.0.
SBXA-9143	Clicking on a memo field in an output process (/PD.O) closed the form in the XUI clients. The code has been amended to prevent this problem in V6.1.4.
SBXA-9147	If the defaultApplication property was set in the central client configuration file, the user was not presented with a list of applications from which to select. With a fix in V6.1.4, setting the defaultApplication property now works correctly and the user can select from a list of valid applications.
SBXA-9193	On Linux AIX, the /PHYSICAL.PRINTER form was not correct, and attempting to add a new stationary caused the XUI client to fail. This problem has been resolved.
SBXA-9195	If the local cache index file was locked when starting SB/XA Rich Client, this caused the client to fail. A fix corrects this issue in V6.1.4.
SBXA-9199	In Report Writer reports output to DIFF, spaces were missing from custom column headings that were painted in the report definition. A code fix corrects this issue in V6.1.4.
SBXA-9207	If /VALIDATE.USER and /PASSWORD.VALIDATION functionality were set up as documented in the Developer Zone article "How To Deploy SB+ Password Validation," the /CHANGE.PWD process failed to verify the new password. With a correction in V6.1.4, the /CHANGE.PWD process verifies the new password as expected. No change to the setup steps is required.
SBXA-9218	Check boxes (toggles) on a subscreen did not work correctly in a multivalue group in GUI mode. This issue is resolved in V6.1.4.
SBXA-9239	With the Auto Extend Field Length flag set to N, Ctrl + End did not extend the field length in multivalued fields in XUI mode. A fix resolves this issue in V6.1.4, and the auto-extend feature works as designed.
SBXA-9282	If a report had more than 80 columns and the selected printer had a printer class with no stationery types defined (such as DEFAULT.PRINTER and DEFAULT.CLASS), the XUI client logged off. With a code fix, this problem no longer occurs in V6.1.4.

Issue Number	Description
SBXA-9305	The SBMailXPS class has been made public so that you can create templates from it. The SBMailXPS.xaml file is available in the Extra folder in the product download directory.
SBXA-9315	In the screen designer (/SD), value marks were not inserted in wrapped text in memo fields in the XUI clients. This issue has been corrected in V6.1.4.
SBXA-9325	If the IsAutoPositionEnabled property was set to True for the Store Client Form Pos parameter, the location and size settings of custom forms were not honored in XUI mode. This issue was addressed in V6.1.4, and the stored settings are applied as designed.
SBXA-9326	When performing a binary file transfer, SB/XA Rich Client failed when transferring a record that was locked. In V6.1.4, file transfer option K was added to lock the directory type file for binary transfers.
SBXA-9352	In derived fields, a check box (toggle) that was selected in GUI mode was displayed as not selected in the same record in XUI mode. A fix corrects this problem in V6.1.4.
SBXA-9457	When the list of values for intuitive help was derived from a QSELECT verb, the column displaying the values was too narrow. The code was corrected in V6.1.4, and the column width fully accommodates the list of values.
SBXA-9470	In versions 6.1.2 and 6.1.3, custom themes that added buttons or menus to the XPS Viewer were unable to call SB processes. The code was amended in V6.1.4, and process calls from the XPS Viewer again work as designed.
SBXA-9472	A problem occurred with a paragraph that used RTN.FLAG="{fldname}" to jump to a specific field. When the paragraph process was called from a custom control through ExecuteSBPlusProcessInContextCommand, focus jumped to the wrong field. Changes to the code prevent this problem in V6.1.4.
SBXA-9489	When running an HTML process in the XUI clients, the web page was not displayed until you resized the HTML window. This issue has been fixed in V6.1.4.
SBXA-9505	Label objects could not be hidden in the XUI clients. This issue has been resolved.
SBXA-9506	Text objects could not be hidden in non-input fields. This issue has been resolved.
SBXA-9510	In the XUI clients, if you attempted to replace an existing toolbar with another toolbar, both the existing and new toolbars were displayed. V6.1.4 implements a fix, and the existing toolbar is replaced by the new toolbar as expected.
SBXA-9537	Memo fields with PARAM=2 did not have horizontal scroll bars and did not wrap text. With a fix in V6.1.4, scroll bars and text wrapping work as expected.
SBXA-9539	In memo fields, when a vertical scroll bar was added, it changed the way text was wrapped in XUI mode. To address this problem in V6.1.4, a vertical scroll bar is always displayed in memo fields.
SBXA-9540	Job schedule definitions (/PD.J) phantom processes did not work unless you set the Phantom Sleep Time parameter in SB Control Parameters (/SB.PARMS). The code was amended in V6.1.4 so that job schedule phantom processes work without a Phantom Sleep Time parameter.
SBXA-9545	In multivalued fields, the scroll bar position was incorrect in GUI mode. This problem has been corrected in V6.1.4.
SBXA-9592	The spell check feature did not work as expected if a context menu with a spelling suggestion list was active and the user right-clicked on a different misspelling in the source file. SB/XA now performs a check when the context menu is opened, and if a list of spelling suggestions exists, SB/XA cleans up the existing list before generating a new list of suggestions.

Issue Number	Description
SBXA-9633	In screens with an action bar, if the mouse pointer was positioned over the action bar at run time, focus switched from the first input field to the action bar. The same thing happened when rolling the mouse over the action bar. With a fix in V6.1.4, focus remains at the input field until an action has been selected from the action bar.
SBXA-9684	In V6.0.0 or later, if you used the Execute Now option after creating a Query Report Definition (QRD), the QRD was incorrectly saved to the data file in addition to xxDEFN. With a correction in V6.1.4, the QRD is saved only to xxDEFN as designed.
SBXA-9731	The following scripts are now bundled with the XUI clients so that they are installed as part of a standard client installation: • SBXAScriptControls.dll • AxInterop.MSScriptControl.dll • Interop.MSScriptControl.dll When the clients run these scripts, they are no longer downloaded from the server, improving performance.

SB/XA v6.1.3 release notes

Build 3330
Release Date: June 2012
These release notes provide information about new features, enhancements, and fixes in SB/XA v6.1.3.

What's new in SB/XA v6.1.3

Log Viewer/Analyzer
At V6.1.3, SB/XA implements a Log Viewer/Analyzer that displays information on logs from the client, SB/XA Communications Server, and SB/XA Application Server. This tool enables you to match up logs from each tier and synchronize the entries in all logs. It provides critical information to help the technical support team analyze errors and resolve customer issues. SBXA-7891

Applications added to Group Security
A new screen called from Group Security Setup (/SEC.GROUP.SETUP) allows you to define the applications associated with a group. This usability enhancement saves administrators time in setting up applications for large groups of users. SBXA-3442

Improvements to file transfer performance
This version implements improvements to the SB/XA file transfer protocol (XAFTP). The XAFTP method has the following advantages:

• Performs downloads faster than any of the three protocols available in SBClient (FTP, SBZ, and SMB), as demonstrated by our V6.1.3 tests.

• Transfers binary files.

• Requires no setup.

• Provides secure communication, using the same protocol as the XUI clients.

SBXA-4295

Autofill of user credentials
An Autofill flag has been added for each Single Sign-On (SSO) enabled application in the user's SSO record. When a user logs in to an SSO application for which the Autofill flag is set to Y (Yes), the user's operating system User ID is autofilled from the information in the SSO record. Autofill can simplify the

user's login and decrease the amount of time administrators spend helping users with login issues. This feature is configurable for those who want tighter security and no autofill. SBXA-7917

Object code versioning

SB/XA V6.1.3 implements the ability to version SB/XA object code. The object code is now stamped with the version number during the build process. This tool will help technical support and partners track patches at customer sites. SBXA-8333

Feature to save form size and position

A flag to save screen size and position has been added in V6.1.3. When the client cache is cleared, the size and position of forms can now be reloaded from the server, so users do not have to resize and reposition their screens. SBXA-4556

Multilanguage capability added for SBX/MPX menu

Multilanguage support has been implemented for the SystemBuilder Explorer (SBX/MPX) menu in GUI and XUI modes. SBXA-4706

Enhancements and fixes in SB/XA v6.1.3

The following issues were addressed in this release:

Issue Number	Description
SBXA-1534	V6.1.3 implements the following changes to printer defaults: ▪ In the Port Configuration (/TERM.CONFIG) > F9-Default screen, an XPS Printer Name field has been added. The default setting for this field is XPS.PRINTER. ▪ In User Security Setup (/SEC.USER.SETUP) > Printers, the XPS printer name entered in the XUI Printer ID field is used by the XUI clients. The Aux Printer ID is now used only by SBClient. This allows you to have LOGICAL.PRINTER as the Aux Printer ID and XPS.PRINTER as the XUI Printer ID. If no printer has been specified, the XUI clients direct output to the XPS.PRINTER.
SBXA-1850	In V6.0.0 and later, SBClient failed when attempting to print a string to the auxiliary (Aux) device if the length of the string was 8192 characters (or any multiple of 4096 characters). The code has been changed to append the null value to such strings, correcting this problem in V6.1.3.
SBXA-2421	As of V6.1.3, the XUI version of the Who Are You? form is built from the GUI version of the form, rather than the character version. This change in the conversion source improves the positioning and alignment of fields on the XUI form.
SBXA-2589	XUI user flags have been added to the User Security Setup (/SEC.USER.SETUP) screen in V6.1.3. In character mode, these flags are available from /SEC.USER.SETUP > F8-GUI Prefs > F5-XUI User Flags. In GUI and XUI modes, the flags are on the XUI Flags tab.
SBXA-3006	In the procedure to create a field definition (/FD), the F6-Addit > Control/Dep field did not validate your entry of a phrase (type PH record). The Control/Dep field allowed you to enter the name of an existing field definition as the name of the multivalue association. In this case, no PH record was created for an association, but field 7 of the field definition was updated to indicate that an association existed, when it did not. After changes in V6.1.3, a phrase entered in the Control/Dep field is validated to verify that it is not the name of an existing phrase, preventing subsequent problems with creating the multivalue association.
SBXA-3288	In previous versions, the Inhibit Logons screen did not validate user IDs entered in the Non Inhibit Users field against DMSECURITY. As of V6.1.3, the program performs validation checking on entries in this field and issues an error if the user ID is not valid.

Issue Number	Description
SBXA-3442	A new screen called from Group Security Setup (/SEC.GROUP.SETUP) allows you to define the applications associated with a group. If no applications are defined for the user in User Security Setup (/SEC.USER.SETUP), applications in the group record are used. If the group record has no applications defined, the applications in the parent group record are used. If the parent has no applications defined, the next level is used, all the way back to the ROOT group. If the ROOT group has no applications defined, all the records in DMAPPLICATIONS are used.
SBXA-3585	When upgrading the UniData edition of SB/XA Application Server for Windows, the installation script issued an error, "Unable to open pointer to old Sauser." This issue has been addressed in V6.1.3, so the SAUSER pointer to the old account is a DIR type only if the old version is 6.0.0 or greater.
SBXA-4083	Field labels in the SB/XA Administration Server Connection dialog box have been revised to provide a clearer description of the information required.
SBXA-4183	In SB/XA V6.1.2 or earlier, SMART.QUERY reports could not be exported to the 64-bit version of Microsoft Office 2010 running on Windows 7 64-bit operating systems. The existing code has been revised and an alternative Windows API function was added as a fail-safe to prevent this compatibility issue.
SBXA-4295	V6.1.3 implements improvements to the SB/XA file transfer protocol (XAFTP). Our V6.1.3 tests demonstrate that the XAFTP method performs downloads as fast or faster than the network copy (SMB) and FTP methods available in SBClient. XAFTP outperforms SBClient SBZ transfers by a factor of 10 or greater, and has the added advantage of supporting binary transfers.
SBXA-4376	In some fields, data was displayed out of position and was partially obscured by the frame in GUI mode running on Windows 7. A fix resolves this issue in V6.1.3.
SBXA-4556	In V6.1.0 and later, screen sizes and positions were lost when the cache was cleared, and there was no parameter to control this behavior. In V6.1.2, a flag to save screen size and position has been added at the SB instance level in SB Control Parameters (/SB.PARMS), at the system level in the System Control Record (/HK.CONTROL), and at the user level in User Flags (/USER.FLAGS). In addition, the following new processes have been created: ▪ CLEAN.MY.POSCACHE – Deletes the DMPOSCACHE item for the current user. ▪ CLEAN.POSCACHE – Prompts for the user whose cache is to be cleared. ▪ CLEAN.ALL.POSCACHE – Deletes DMPOSCACHE items for all users. Note that after clearing the client cache, you must log off and log on again to restore the server cache.
SBXA-4588	Auto-generated forms for entering criteria in a selection process (/PD.S) were larger in XUI mode than the same forms in GUI mode. With a fix in V6.1.3, the XUI form closely resembles the GUI form in size.
SBXA-4649	Two new ISBForm properties, IsDefaultFormLocation and IsDefaultFormSize, have been added to indicate whether the form was sized based on client-side parameters. These properties are set to a default of True and retain this value until the user moves or resizes the form's window, respectively. The location and size properties are saved in the form location cache, so they survive closing and reopening the SB/XA client. Note that SB/XA uses one zoom factor for all forms; there is no property to set the zoom factor for an individual form.

Issue Number	Description
SBXA-4688	If two users were logged in and had a total of five GUI and XUI client sessions open at the same time, running the /LISTU process returned an unclear message, "5 SB+ Users Logged In, Max Number of SB+ Users 2." The first segment of the message text has been changed so it now reads, "5 SB+ Sessions."
SBXA-4933	When running a QRD or Report Writer report and the output destination was "A" for Ask, the printer defined in AUX Printer of User Security Setup (/SEC.USER.SETUP) was displayed as the default. In V6.1.3, a new field "XPS Printer ID" has been added in /SEC.USER.SETUP. In addition, a new field has been added in Port Configuration (/TERM.CONFIG), allowing you to define a default XPS printer systemwide. If both of these settings are left blank, the printer for QRD and Report Writer reports defaults to XPS.PRINTER.
SBXA-4694	In V6.1.1 and 6.1.2, the File > Save As option did not function successfully for HTML reports. This issue has been resolved in V6.1.3.
SBXA-4706	Multilanguage support has been implemented for the SystemBuilder Explorer (SBX/MPX) menu in GUI and XUI modes. A new screen called MPX Text has been added to the /TRANSLATE feature. It is accessed as the last option after selecting the language. The new screen consists of four elements: ▪ The number of the attribute in MPX.TEXT to be translated. ▪ A display-only field indicating the language of the text that is being translated. ▪ The text from the original MPX.TEXT item in DMCONT for this attribute. ▪ The translated text. The MPX.TEXT item is created by this screen and stored in DMLANGUAGE.XX. If you set a language code in user flags, the server reads MPX.TEXT from the appropriate DMLANGUAGE.XX and sends it down to the client.
SBXA-5044	In the XUI clients, footer lines in Report Writer reports were not printed if the output was directed to a physical printer, rather than the XPS Viewer. This issue has been resolved in V6.1.3.
SBXA-5147	In SBDEMO, the Enquiries > Car Parts form was missing a column heading. The heading is now displayed in V6.1.3.
SBXA-5167	When performing an F3 Select in a selection process in GUI mode, if you used the icon at the bottom of the selection list in ListView to download the entire list and then pressed the Esc key, the message "No Items Selected" was displayed. This behavior has been corrected in V6.1.3 so that the message is displayed only if you used the P option in the selection process.
SBXA-5168	In the release notes for V6.1.1, the description for SBXA-4858 has been updated with an additional path to which SB/XA Communications Server is installed on computers running Windows 2003 Server: C:\Documents and Settings\Default User\Local Settings\Application Data \Rocket Software\SBXAComServer.config
SBXA-5203	In report process definitions (/PD.R), if you specified paper size and orientation values for a PDF report driver in the Direct to PDF tab, the values were not visible after saving the report process definition. This problem has been resolved, and these values are now saved and displayed as expected.
SBXA-5222	Using PARAM 12 of the security API in a no-restrictions account returned an error, "Record corrupt, take note before filing." The code has been amended to prevent an error in these circumstances in V6.1.3.

Issue Number	Description
SBXA-5232	The error messages stemming from an incorrect endpoint were reversed for the SBXAUserNamePassword and WindowsUserNamePassword authentication types in V6.1.2. The message text has been corrected for both authentication types in V6.1.3.
SBXA-5259	In V6.1.0 and later, fields defined as a record of type PH (phrase) performed no validation and overwrote other record types. This issue has been fixed.
SBXA-5267	In XUI mode, the Admin > Files > View File Data > List All File Names option returned the list of file names in an error message format that was difficult to read. The List All File Names function has been changed in V6.1.3 so it runs the HK.FILES.O process and displays the file names in a grid.
SBXA-5269	In output screens that had a label in the F3 function key slot, the F3 function key was disabled in the XUI clients. The code has been amended to correct this problem in V6.1.3.
SBXA-5271	In input screens with a mandatory date field containing the syntax "P: (*P484487)" in the Process After slot, an error occurred after the user entered the "+1" key sequence, entered the date, and then pressed Tab. The error message text, "Must enter something," was confusing, because the date field contained data. This issue has been corrected in the GUI and XUI clients, and the conditions described here no longer trigger an error.
SBXA-5281	In SBClient V6.1.2, deleting the default network configuration profile resulted in a "Default Modem has changed" error. A section of code that checks the deleted item has been amended, preventing this error in V6.1.3.
SBXA-5289	When using SBXAUserNamePassword authentication with SB/XA Browser Client, if the navigation style was set to Window mode, the browser reverted to Page mode after the user ended the session. This behavior has been corrected in V6.1.3, and SB/XA Browser Client remains in Window mode, as designed.
SBXA-5290, SBXA-7984	In V6.1.3, a Save Credentials check box is placed in the Connect to Application dialog box under certain conditions. At the user's first login, the Save Credentials check box is not displayed. When the user logs in, the server is contacted and the information is queried. If the user is allowed to save credentials, the Save Credentials check box is displayed on subsequent logins. If the user has stored credentials and the administrator later disables the user's permission to store credentials, the stored credentials are removed. As part of this enhancement, a new flag called Local Storage of User IDs and Passwords has been added to the user security record and to the group security record (parameter <39,3>). If the Local Storage of User IDs and Passwords field in the user security record is blank and the flag in the group record contains a value, the value in the group record is sent with the user record to the client.
SBXA-5299	Type 3 (painted) menus are not supported in XUI mode. This is a permanent restriction; there is no plan to add support for this functionality in the future. However, in versions 6.1.0 and later, the XUI client failed if the application attempted to display a Type 3 menu. This has been addressed in V6.1.3, so a "Not Implemented" message is displayed when a Type 3 menu is encountered, and after dismissing the error message, the user can continue working in the client window.
SBXA-5301	In input screens displayed in the XUI clients, a horizontal scroll bar was added automatically to grids when it was not necessary to scroll. A fix corrects this problem with form rendering in V6.1.3.

Issue Number	Description
SBXA-5312	When users created an account or ran FIX.SBPLUS.POINTERS in previous versions, SB/XA did not add a VOC entry for TUBP and TUINSERT in the account. The create and update processes have been enhanced in V6.1.3 to write these VOC entries to the account.
SBXA-5315	In V6.1.1 and 6.1.2, the regenerate expressions (/REGEN.EXP) process did not regenerate default process (/PD.D) expressions. This issue has been corrected in V6.1.3.
SBXA-5318	On Windows 7 computers, if the Control Panel > Region and Language > Keyboards and Languages selections were set to Netherlands and Dutch, F3 and XPS Viewer displays were corrupt and caused SB/XA to hang. Several fixes to correct character conversions and a mismatch between the floating point string format on SB/XA Application Server and the client correct this problem in F3 and XPS displays.
SBXA-5333	When using a cross-domain connection, users experienced problems in searching intuitive help if the grid was not in focus when the search was run or if the F6 key was pressed repeatedly. These problems were attributed to timing issues with cross-domain connections, and a fix addresses this in V6.1.3.
SBXA-5338	In the UNIX edition, F3 intuitive help screens in XUI mode were displayed at a small size, obscuring the help text. The code has been amended in V6.1.3, resolving this display issue on UNIX systems.
SBXA-5343	With terminal emulation set to Wyse 50, SBClient displayed selections in reverse video beyond the defined boundaries. This behavior has been corrected.
SBXA-5347	On UNIX systems, the Available Disk Space dialog box displayed the availability statistics incorrectly in the XUI clients. This issue has been resolved in V6.1.3. Note that this dialog box is not implemented for Windows systems, and a "not available" message is displayed.
SBXA-5370	In the User Security Setup (/SEC.USER.SETUP) screen, the "Last Updated by" and "Date" columns allowed user input, contrary to the intended designed. In V6.1.3, these columns are rendered as display-only and input is not allowed.
SBXA-5374	In the UniVerse for Windows edition, the User Security Setup (/SEC.USER.SETUP) screen was missing the menu for copying a user. This menu has been reinstated in the Windows edition in V6.1.3.
SBXA-5375	When the central configuration file defined multiple connections, the list of applications was cached from the first connection. If you chose a connection to another SB/XA Communications Server, the Connect to Application window listed the applications for the first connection. The code has been revised in V6.1.3, and the client presents the application list for the current connection.
SBXA-5383	In the SystemBuilder Explorer (SBX/MPX) menu, if you added a nonexistent image as the icon for a menu item, the word "expanding" appeared instead of the menu item. Double-clicking this word caused SB/XA to fail. V6.1.3 implements the following changes to address this issue: If an icon is invalid, the menu now expands to a single entry saying "invalid icon." If the user clicks this entry, the action is ignored.
SBXA-5387	When users specified settings for Columns and Rows in the Maintain Stationery Types dialog box, the cutoff point was incorrectly calculated on settings from Printer Class, rather than on the stationery settings. The code has been amended to calculate the cutoff point based on stationery settings in these circumstances.

Issue Number	Description
SBXA-5388	In V6.1.2, the single Character for XPS Tags field in SB Control Parameters (/SB.PARMS) > XUI Parms was redesigned as two XPS tag fields: ▪ Start Character for XPS Tags ▪ End Character for XPS Tags If the end character is not defined, the setting defaults to CHAR(9). The UniVerse for Windows edition implemented the two new fields in V6.1.2. The UniData for Windows, UniData for UNIX, and UniVerse for UNIX editions contained only one field, Character for XPS Tags. In V6.1.3, this enhancement has been ported to all editions.
SBXA-7865	The description of terminal definition variable 3.8 was incorrect in general help (/GENHELP) and in the *SB/XA Reference* manual, Appendix C. Variable 3.8 is the value for the Mouse Enable sequence, as follows: ▪ On sequence: (27)_TM1(27)\(27)_TS0(27 ▪ Off sequence: (27)_TM0(27)\(27)_TS1(27
SBXA-7871	On computers running Windows XP, rolling the mouse over the SBClient toolbar displayed an empty box, sometimes consuming half of the desktop display area. This was due to failure of a system call to find the correct font in which to display hover help, which then caused the program to select a random font family/size to determine the size of the hover help window. The program has been amended in V6.1.3, and the hover help window is displayed as designed.
SBXA-7885	In memo fields, if the theme attempted to call a paragraph process with the syntax SBCommands.ExecuteSBPlusProcessCommand.Execute("P.KEEPALIVE", SBPlus.Current), the server code explicitly ignored the /process call. The XUI clients are able to differentiate between a /process call and data in V6.1.3, and paragraph processes are executed correctly in memo fields in XUI mode.
SBXA-7892	When an error required a change to the administration data, the error dialog box was displayed behind the administration form. If you corrected the administration details and attempted to log in, the session failed. Display of the error dialog box has been changed so it is always on top of the administration form, preventing this problem in V6.1.3.
SBXA-7891, SBXA-7983	V6.1.3 introduces a Log Viewer/Analyzer that displays information on logs from the client, SB/XA Communications Server, and SB/XA Application Server. This tool enables you to match up logs from each tier and synchronize the entries in all logs. The Log Viewer/Analyzer is available in the Extra folder on the SB/XA V6.1.3 product CD image. To enable this new feature, the logs for each tier were revised to pass the required information to the Log Viewer/Analyzer tool.

Issue Number	Description
SBXA-7902	Pressing the down arrow key on the controlling multivalue field when there was a Process After slot resulted in various behaviors, depending on the version, the presentation mode, and whether you used a grid. GUI behavior: ▪ Grid – Process After was called when down arrow was pressed ▪ Non-grid – Process After was not called when down arrow was pressed XUI behavior: ▪ 6.1.1 – Process After was not called when down arrow was pressed ▪ 6.1.2 – Process After was called when down arrow was pressed To address this issue, a new option has been implemented in V6.1.3. You can add the O option to the Process After slot so that the process is called only if the data has changed or if you press Enter to leave the field.
SBXA-7906	An input screen with nothing but toggle fields behaved incorrectly in GUI mode. When you executed an input screen with multiple toggle objects in the GUI client and selected one toggle object, a second toggle object was also displayed as though it had been selected. This issue has been resolved in V6.1.3.
SBXA-7917, SBXA-7985	A new field called Autofill has been added for each Single Sign-On (SSO) enabled application in the user's SSO record. When a user logs in to an SSO application for which the Autofill flag is set to Y (Yes), the user's operating system User ID is autofilled from the information in the SSO record. Likewise, when SB/XA prompts for the User ID, it is autofilled from the information in the SSO record. To support this enhancement, Autofill flags have been added to the user security record (/SEC.USER.SETUP) and to the group security record (/SEC.GROUP.SETUP). The code that sends the user record to the client has been amended so that if the Autofill flag in the user security record is blank and the Autofill flag in the group security record contains a value, the value in the group record is sent with the user record to the client.
SBXA-7952	Single Sign-On (SSO) did not work if the global AutoLogin flag was set to Y (Yes) in SB Control Parameters (/SB.PARMS). The code has been fixed to prevent this problem in V6.1.3.
SBXA-7969	In interleaved multivalue grids in the XUI clients, the separator lines between columns were visible and looked confusing in overlapping columns of the grid. A change has been applied in V6.1.3 so that column separators are now invisible.
SBXA-7977	The focus and data values were out of sync on slower systems when the user pressed the left mouse button while hovering over one text box and released the mouse button over another text box. A fix has resolved this issue.
SBXA-7986	In an input screen with a multivalued grid, the controlling multivalue field was a derived field defined with six rows of data, but displayed only two rows of data in the XUI clients. A section of code was revised to fix this problem in V6.1.3.
SBXA-7989	In V6.1.0 or later, the SB/XA cache was unable to handle long resource names. To address this issue, V6.1.3 implements an index for local file names. The file name can now contain a maximum of 52 bytes. This includes up to 32 bytes from the start of the resource name, plus a "." and a unique counter (a long number). The index is kept in a file called localfile.idx. A cached copy of the index is stored in memory for quick access to the file names.

Issue Number	Description
SBXA-7992	In multivalued grids in the XUI clients, entering @(-3) to clear the screen from the current position to the end of the screen did not work as designed. The code has been amended so it now overwrites text with spaces, clearing the text correctly. As a related problem, the XUI clients ignored the Line mode attribute when clearing the screen. If you set a Reverse attribute (for reverse video) at the beginning of the line and then used @(-3) to clear the screen from the middle of the same line, the entire screen was displayed in reverse video. When using @(-3) to clear the screen in Line mode, the program now puts a Normal attribute at the beginning of the next line.
SBXA-7993	A "not found" error message was displayed when executing the primary screen of two tabbed screens in XUI mode. When running the input screen I*S7895*MT100.1, SB/XA returned the message, "MT101.1 not found," before the primary screen was displayed. The form screen was MT100.1, rather than MT101.1 as indicated in the message.
SBXA-8021	A new field in SB Control Parameters (/SB.PARMS) enables you to specify the number of seconds of delay for starting phantom processes. If you leave this field blank, SB/XA uses the default value of 3 seconds.
SBXA-8039	If you defined an auxiliary (Aux) printer in Port Configuration (/TERM.CONFIG) and specified a different Aux printer for a user in User Security Setup (/SEC.USER.SETUP), the user's Aux printer setting did not override the default Aux printer setting for the port. To address this issue in V6.1.3, the Port Configuration settings are used only if no Aux printer is specified in the user security record. In addition, the fallback printers have been changed. If no Aux printer is defined in the user security record or in /TERM.CONFIG, the Aux printer defaults to LOGICAL.PRINTER rather than DEFAULT.PRINTER. For XPS printing, the XPS printer defaults to XPS.PRINTER.
SBXA-8080	A type 1 menu with coordinates of 1 caused the XUI clients to fail. A fix has been applied to prevent this problem in V6.1.3.
SBXA-8094	In some cases, display fields in a multivalued grid did not display data in the XUI clients. This issue has been corrected.
SBXA-8121	When running a program from the command line to display text in reverse video on an HP Itanium server, the reverse video was not turned off correctly and the next menu option on the selected menu was displayed in reverse video in SBClient with Wyse 50/60 emulations. The code has been amended to fix this problem in V6.1.3.
SBXA-8131	After resizing an intuitive help form, the column sizes were not stored. With a change to the code in V6.1.3, column sizes are saved as expected.
SBXA-8141	In the XUI clients, right-click menus were displayed briefly and then disappeared. This behavior has been corrected in V6.1.3, and right-click menus are displayed as designed.

Issue Number	Description
SBXA-8142	In SBClient, the /CHANGE.PWD process failed if the user attempted to change the password on initial login. The password process failed due to two separate problems in related areas: ▪ The passwords of users created in the GUI client in previous builds were corrupted. ▪ The /CHANGE.PWD process encountered problems if the user's original password contained lowercase characters. Both problems have been resolved in V6.1.3, and changing the password in the SBClient no longer produces an error.
SBXA-8155	In forms displayed in the XUI clients, the labels of radio buttons failed to change after setting attributes with the /SETATTR function, and the client returned an error. The fix for this issue also required a change to character layout processing to get the correct size for vertical radio buttons when the definition included only validation codes.
SBXA-8174	A bug in V6.1.2 prevented the ability to print a range of pages in the XPS Viewer. This issue has been resolved in V6.1.3, and users can print a specified page range from the File menu of the XPS Viewer.
SBXA-8192	In V6.1.2, each server session from the XUI client attempted to read the socket every two milliseconds (ms) when idle, resulting in high CPU utilization. As of V6.1.3, you can configure the socket time-out in SB Control Parameters (/SB.PARMS) > Socket Options > Socket Timeout. In addition, the default value of this time-out has been changed from 2ms to 1000ms. The default setting applies if no value is specified in the Socket Timeout parameter in the /SB.PARMS record.
SBXA-8227	If you used the resizer grip in the lower right corner of a tabbed input form to make the form window smaller, horizontal and vertical scroll bars were not generated and fields and buttons were cut off. In V6.1.3, the behavior has been corrected so that resizing the window of a tabbed input form works the same as it does for a non-tabbed input form.
SBXA-8242	Images on the toolbar were not de-emphasized by the SETATTR G.EMPHASIZED command. With a fix in V6.1.3, toolbar icons are de-emphasized visually when they are in a disabled state.
SBXA-8256	A call to TU.PC.UPLOAD caused SBClient to fail. Revisions to the file transfer program corrects this problem in V6.1.3.
SBXA-8279	A dynamic combo box in a dependent field of a multivalued grid did not open in the GUI client. This issue was due to the sbmvclass losing internal data for one part of the grid when another part of the grid was set. With a code change in V6.1.3, dynamic combo boxes open as expected.
SBXA-8282	Existing SB+ 5.x users were unable change their password from the /CHANGE.PWD command in GUI or XUI mode in V6.1.2. This issue has been fixed.
SBXA-8333	V6.1.3 implements the ability to version SB/XA object code. The object code is now stamped with the version number during the build process. In addition, the /SB.INFO process has been enhanced so the center part of the screen that formerly displayed the Patch No and Date Applied fields now contains File, Item ID, Version, Platform, Date, and Time fields from the stamping process. A file is stamped if its version number does not match the version number of the installed product. With version stamping, object code patches to the SB/XA Application Server can be easily detected and verified.

Issue Number	Description
SBXA-8347	In a multivalued grid with the cursor positioned on the last row (which was empty), when the user scrolled to the top of the grid, the first row was not visible. With a fix in V6.1.3, the first row is displayed on scrolling to the top of the grid.
SBXA-8373	During login to SB/XA for UniData on the GUI client, an "unassigned variable" message was displayed between input of user name and password. This issue has been resolved.
SBXA-8378	The TU.FILE.INFO subroutine works only when run on the XUI clients. When this host routine was executed on the character and GUI clients, it returned an incorrect status code of 0, indicating that the file was found, even if the file was not on the client computer. After a change in V6.1.3, running TU.FILE.INFO on the character and GUI clients returns a status code of 1 and an error message indicating that this host routine runs only on the XUI clients.
SBXA-8418	When calling phantoms from a paragraph (/PD.P) process, if the paragraph process included a loop, some of the phantom processes did not run successfully. This issue has been resolved.
SBXA-8449	The msmapi32.ocx Active X control that supports MAPI in SBClient was not present on the product CD image in V6.1.2. MAPI did not work unless Active X was already present on the client computer. The msmapi32.ocx file has been re-added to the build scripts in V6.1.3.

SB/XA v6.1.2 release notes

Build 3226
Release Date: February 2012
These release notes provide information about new features, enhancements, and fixes in SB/XA v6.1.2.

What's new in SB/XA v6.1.2

Support for graph definitions
In versions 6.0.0 and later, the Graph definitions feature was not available in SB/XA Browser Client or SB/XA Rich Client. This functionality has been implemented in the XUI clients using new Microsoft WPF graph toolkit. Graph definitions from earlier releases now work unchanged in the XUI clients. SBXA-1234

Ability to set up applications for a group
A new subscreen in Group Security Setup (/SEC.GROUP.SETUP) enables you to associate applications to a group of users. This feature relies on the fundamental of inheritance, and can save time in setting up applications for many users. SBXA-3442

Expanded functionality in SBPlusClient API
New methods have been added in the SBPlusClient API, supporting the ability to (1) call the XUI clients from an application and pass through a process that runs in the XUI clients, and (2) log in as a different user and application. SBXA-1632, SBXA-3609

New template for creating a basic theme
Version 6.1.2 provides a template to assist you with creating a basic theme in Visual Studio 2010. SBXA-3985

Performance tuning
Version 6.1.2 was subject to performance improvements in several areas, resulting in quicker response time in the XUI clients, in downloading and caching themes, and in grid handling. SBXA-4132, SBXA-4666, SBXA-4846, SBXA-4940, SBXA-5009, SBXA-5142

Option for exporting reports to a text file

The XPS Viewer offers a new option to export reports directly to a text file, saving you several intermediate steps to perform this task. SBXA-4543

Improved account upgrades

At version 6.1.2, the installation program checks the version number in the account's VOC file and performs an upgrade if any of the first three elements (version number, release number, and patch number) have changed. SBXA-4876

64-bit version of SBXAMAPIBridge

The SB/XA product CD now provides a 64-bit version of the COM server, named SBXAMAPIBridge64.exe, for use with the 64-bit version of Microsoft Outlook 2010. The 64-bit version has its own installer, named SBXAMAPIBridge64.msi. SBXA-4943

Column and row defaults

New fields have been added to the Printer Class Definition form for defining standard and condensed column and row settings. If Stationery settings are empty, these fields act as a fail-safe to calculate font size and number of characters to print on the page. SBXA-5036

New features, enhancements, and fixes in SB/XA v6.1.2

The following issues were addressed in this release:

Issue Number	Description
SBXA-80	Running CLEAN.SBHSTATE in the XUI clients should have performed the same function as the Clear Local Cache button, but had no result. With revisions to version 6.1.2, the CLEAN.SBHSTATE function clears the cache as designed. As a related change, the XUI.GUI and $XUI.GUI items are no longer transferred from the SB+.OLD account on an upgrade, leaving only the items that contain the correct XAML code.
SBXA-154	In the SBDEMO account, Car Rental > Hire Details > F8-Lock displays the Lock Password dialog box. Due to the type of lock used in this demo, clicking the Cancel button or pressing the Esc (Escape) key did not close the dialog box. In version 6.1.2, the demo uses a different type of lock that allows you to cancel or escape from the Lock Password dialog box.
SBXA-1156	F1 help was not available for XUI Display Defaults in SB Control Parameters (/SB.PARMS) or for XUI Form Parameters in Screen Definitions (/SD) in versions 6.0.1 and later. F1 help has been added for these parameters in version 6.1.2.
SBXA-1188	In versions 6.0.1 and later, changes to the border_color, border_style or border_width properties on a GUI form were not shown in the XUI clients. This issue has been corrected in version 6.1.2.
SBXA-1234	Version 6.1.2 implements support for Graph definitions in the XUI clients.

Issue Number	Description
SBXA-1632	Several enhancements in version 6.1.2 enable you to call the XUI clients from an application and pass through a process that runs in the XUI clients. • Use the `public static void ConnectAndExecuteProcess(string application, string sysid, string processName)` method to call the XUI client from the SBPlusClient API. You can pass through `StartSystemId=SysId` and `StartProcess=ProcessName` to the XUI client on the command line. • Use the following URL to start SB/XA Browser Client from a web page: http://localhost/Clients/Browser/SBXAWinFxBrowser.xbap?StartApplication=[ApplicationName]&StartProcess=[ProcessName]&StartSystemId=[SB/XA system ID] • Use the following URL to start SB/XA Rich Client from a web page: SBXAWinFxWindow.application?StartApplication=[ApplicationName]&StartProcess=[SB/XA processName]&StartSystemId=[SB/XA system id] • Start an SB process from a shortcut with the following syntax: C:\Program Files (x86)\Internet Explorer\iexplore.exe http://localhost/Clients/Rich/SBXAWinFxWindow.application?StartApplication=[ApplicationName]&StartProcess=[ProcessName]&StartSystemId=[System
SBXA-1633	If the administrator set up an SB user ID in uppercase in Single Sign-on, and the user entered the SB user ID in lowercase at login, the user was able to log in successfully, but the password was not stored. To resolve this problem, SB/XA Communications Server no longer checks the case when comparing the operating system user ID to the SB user ID to determine whether to update the user's credentials.
SBXA-3090	In previous versions, F3 Help lookups did not work in Group or User Security Setup in the XUI clients. Pressing F3 in the Group Id Code field on the /SEC.GROUP.SETUP screen or the User Id Code field on the /SEC.USER.SETUP screen produced no result. This has been fixed.
SBXA-3442	A new screen called from Group Security Setup (/SEC.GROUP.SETUP) allows you to define the applications associated with a group. If no applications are defined for the user in User Security Setup (/SEC.USER.SETUP), applications in the group record are used. If the group record has no applications defined, the applications in the parent group record are used. If the parent has no applications defined, the next level is used, all the way back to the ROOT group. If the ROOT group has no applications defined, all the records in DMAPPLICATIONS are used.
SBXA-3609	A ConnectToApplication method has been added to the SBPlusClient API, supporting the ability to log in as a different user and application. The syntax is as follows: SBPlusClient.ConnectToApplication(UserName, Password, ApplicationName);
SBXA-3757	When viewing reports in SB/XA Browser Client, the File menu did not expand to show options in versions 6.0.4 and later. This issue has been resolved in version 6.1.2, and the File menu expands correctly in the Browser client.
SBXA-3830	A problem with the way @RTN.FLAG passed a change focus command from the client back to the server has been resolved.

Issue Number	Description
SBXA-3915	In an SB+ to DOS file transfer (/PD.LO) process that used option C, the process created an empty folder named "xxx". The code has been changed in version 6.1.2 to prevent creating an empty folder.
SBXA-3985	SB/XA 6.1.2 provides a template to help you create a basic theme in Visual Studio 2010. The template is now included on the SB/XA product CD in the following path : SBXACD3224\Extra\XAML\themes\Custom Theme Template. To install the template on your computer, double-click the SBXAThemeTemplate.vsix file and follow the prompts.
	Complete the following steps to create an empty custom SB/XA theme: In Visual Studio 2010, select File > New > Project. From the list of available templates, select the SBXA Templates folder and then choose SBXACustomTheme.
SBXA-4132	SB/XA Rich Client and SB/XA Browser Client were subject to performance tuning, improving their response time in version 6.1.2.
SBXA-4216	In SB/XA 6.1.1 and earlier, there was no version control checking to verify whether an existing SBXAMAPIBridge component needed to be upgraded. The TU.MAPI.LOAD routine has been modified to return error codes specifying why a MAPI load process failed:
	▪ MAP.LOGON.FAILURE (10000) - Failed to log in to the MAPI provider.
	▪ MAP.NO.MAPI (10013) - MAPI is not set up on the client.
	▪ MAP.NO.MAPI.BRIDGE (10014) - The correct version of the SBXAMAPIBridge component is not registered. This usually means it needs to be installed or upgraded to a later version.
SBXA-4265	To address a possible security issue, SB passwords passed to and from subroutines are now encrypted on SB/XA Communications Server before being sent to SB/XA Application Server. In addition, a login procedure has been modified to decrypt passwords on SB/XA Application Server.
SBXA-4287	In the controlling multivalue field of a grid, GUI click menus did not work in GUI or XUI mode. A correction has been implemented in version 6.1.2 so these menus work as intended.
SBXA-4294	In versions 6.1.0 and 6.1.1, DISP messages showed XAML tags in the display. Several changes have been implemented in version 6.1.2 to prevent XAML tags from appearing in DISP messages:
	▪ SB Control Parameters (/SB.PARMS) > XUI Parms now contains two XPS tag fields: – The Character for XPS Tags field label has been changed to Start Character for XPS Tags, clarifying that this field defines the start character. – An End Character for XPS Tags field has been added. If the end character is not defined, the setting defaults to CHAR(9).
	▪ XPS.CLASS and $XPS.CLASS now contain the new end character.
	▪ The SB.DIALOG, SB.INTERP.O, SB.RD.RUN, and SB.SETUP.S subroutines have been changed to use the start and end characters.
SBXA-4298	When adding a new row in the grid on the Orders > Car Maintenance/Service screen in SBDEMO, one extra blank row was displayed in XUI mode. The fix for another issue has resolved this problem in version 6.1.2.

Issue Number	Description
SBXA-4339	When the value of the AutoDownload Images parameter in the System Control Record (/HK.CONTROL) was blank, SB/XA did not default to the SB Control Parameters (/SB.PARMS) setting of No or blank. If the parameter in /HK.CONTROL was blank and the parameter in /SB.PARMS was No, images were downloaded automatically. After fixes in version 6.1.1, images are auto-downloaded correctly.
SBXA-4345	The values of check boxes (toggles) in multivalued fields in a grid were not saved correctly. If you selected all check boxes, cleared one check box, selected that same check box again, saved the record, and then reopened the record, all check boxes were cleared. The code has been amended to correct this problem in version 6.1.2.
SBXA-4363	Version 6.1.2 supports the ability to change icons on submenus of type 5 menus.
SBXA-4366	A problem with missing buttons occurred when working in the Car Rental screen of SBDEMO in XUI mode. On calling intuitive help from the Rental No field, the Define Selection Choice screen is displayed. If the user left all fields blank and pressed the Accept button, an error dialog box was displayed. When the user clicked Continue in the error dialog box, the Define Selection Choice screen was redisplayed with the buttons missing. A fix was applied in version 6.1.2, and the buttons are now displayed as designed.
SBXA-4368	After making changes in the System Control Record (/HK.CONTROL) or SB Control Parameters (/SB.PARMS) and clicking the Close (X) button, the GUI and XUI clients did not display a dialog box prompting the user to save changes. A Save Changes dialog box has been added in both forms in version 6.1.2.
SBXA-4372	If a field label contained an ampersand (&) character, the & character was not displayed in the field label on screens in the XUI clients. This has been corrected in version 6.1.2, and the & character is displayed in field labels in XUI mode, the same as in GUI and character modes.
SBXA-4374	In the Physical Printer Definition screen, clicking the mouse in the Stationery Types grid in certain circumstances caused the GUI and XUI clients to fail. This happened if no stationery types were defined for the XPS.CLASS in Printer Class Definitions and if the Stationery Types grid was empty. In versions 6.1.1 and later, one stationery type is defined by default, preventing problems when running a default installation of SB/XA. A fix has also been applied in version 6.1.2 to prevent errors if stationery types are deleted from the printer class definition and the Stationery Types grid is empty.
SBXA-4389	The SETATTR command did not set the background color of grid cells in the XUI clients. A code fix resolves this problem in version 6.1.2, and SETATTR now behaves the same in XUI mode as in GUI mode.
SBXA-4433	In versions 6.1.0 and 6.1.1, it was possible to save and run a DOS to SB+ file transfer (/PD.LI) or an SB+ to DOS file transfer (/PD.LO) with the target file name blank. The null value was treated as an actual file name, and file transfer process locked the record so it could not be accessed from another client session. A code fix has been applied in version 6.1.2, and an error message is now issued if the target file name is left blank.
SBXA-4443	When running a DOS to SB+ file transfer (/PD.LI) in GUI or character mode, the client did not return an error message if the target Local File Name field contained an invalid path. An error message is now displayed in these conditions in GUI and character modes, with the same error message text previously implemented in XUI mode.
SBXA-4445	The tilde (~) character was not displayed in DISP 4 messages within a paragraph (/PD.P) process in the XUI clients. The code was revised in version 6.1.2, and the tilde character is now displayed in DISP 4 messages in XUI mode.

Issue Number	Description
SBXA-4451	In versions 6.1.0 and 6.1.1, changing a setting to an invalid value in the configuration file caused SB/XA Browser Client or SB/XA Rich Client to fail. If the configuration file contains an invalid value in version 6.1.2, the local cache and default values are used instead, and the client returns a warning message.
SBXA-4460	In the Global tab of the SB Control Parameters (/SB.PARMS) form, entering an invalid number in the Form Defns to Store field produced an ambiguous error message. The message text has been changed to, "Input must be in range 0 to 9."
SBXA-4475	When destroying a custom form, if DestroyForm() was called a second time, the non-custom SB/XA form on the top of the stack was destroyed. With a fix in version 6.1.2, this problem no longer occurs.
SBXA-4486	The /PF process did not work correctly in XUI mode. In GUI mode, /P prints the desktop to the default client printer and /PF prints the active form to the default client printer. In the XUI clients, both /P and /PF printed the desktop to the default client printer. With a code fix in version 6.1.2, the /PF process prints the active form in the XUI clients, as designed.
SBXA-4518	A new dialog box has been added to support XPS printing, allowing you to name a report file to be sent from the XPS Viewer to an e-mail address.
SBXA-4543	The XPS Viewer in version 6.1.2 provides an Export to Text option, giving you the ability to export a report directly to a text file.
SBXA-4545	In previous versions, the screen capture (/P) process did not work to capture the active window in the XUI clients. A fix to the /P process enables you to capture the active window in version 6.1.2.
SBXA-4555	In versions 6.1.0 and 6.1.1, the spelling checker correctly identified misspelled words in the XUI clients. However, if the user right-clicked a misspelled word, selected the correct spelling from the list, and pressed F2 to save the record, the correction was not saved. This issue has been corrected in version 6.1.2.
SBXA-4559	With an enhancement in version 6.1.2, XPS reports retain their format settings when output to Microsoft Word. If the report is printed in landscape orientation in the XPS Viewer, it is also formatted in Word in landscape orientation, and the font is sized to fit the page, the same as in the XPS Viewer.
SBXA-4619	A customer reported data integrity issues arising from a screen with work fields that used a custom theme and three @REFRESH=-2 settings. When clicking a hyperlink, the @PARAM value was set to an incorrect value; this resulted in incorrect data displaying in the customer's application. In version 6.1.2, the program checks to see if the data sent in a refresh is the same as the data that is currently in the grid, and if so, the cells in the grid are no longer updated.
SBXA-4620	In the SBDEMO account, compiling a newly created file containing a value mark (VM) caused the XUI clients to fail. The problem stemmed from an error line displaying the value mark. To correct this issue, the value mark is now displayed as a character.
SBXA-4625	Resizing a grid column containing right-justified data in XUI mode truncated the data. This has been fixed.
SBXA-4647	Depending on the performance of the XUI client, the SB/XA Client Configuration form sometimes did not open. This issue has been resolved.

Issue Number	Description
SBXA-4653	In previous versions, the KEEPALIVE function, which prevents client sessions from terminating, was a hard-coded feature. A new screen for socket options has been added in SB Control Parameters (/SB.PARMS) in version 6.1.2, allowing you to set a value for the KEEPALIVE parameter.

The following table describes the available options for setSocketOptions. These options are case-sensitive.

Option	Description
DEBUG	Enable/disable recording of debug information.
REUSEADDR	Enable/disable the reuse of a location address (default).
KEEPALIVE	Enable/disable keeping connections alive.
DONTROUTE	Enable/disable routing bypass for outgoing messages.
LINGER	Linger on close if data is present.
BROADCAST	Enable/disable permission to transmit broadcast messages.
OOBINLINE	Enable/disable reception of out-of-band data in band.
SNDBUF	Set buffer size for output; default buffer size is 4 KB.
RCVBUF	Set buffer size for input; default buffer size is 4 KB.

The following table describes the status of each return code.

Return Code	Status
0	Operation was successful.
Non-zero	For the status of each non-zero return code, see "Socket Function Error Return Codes" in the *UniBasic Extensions* or *UniVerse BASIC Extensions* manual.

Issue Number	Description
SBXA-4654	In versions 6.1.0 and 6.1.1, if the site used a central configuration file defining multiple connections, the user was prompted to enter the name of the SB/XA Communications Server, effectively defeating the purpose of centralizing client configuration. With changes in version 6.1.2, the central configuration file with multiple connections works as designed.
SBXA-4655	When the central configuration file defined multiple connections, the list of applications was cached from the first connection. If you chose a connection to another SB/XA Communications Server, the Connect to Application window listed the applications for the first connection. The code has been revised in version 6.1.2, and the client presents the application list for the correct connection.
SBXA-4665	If a field has custom validation and is defined as a toggle inside of a grid, the XUI clients did not display the field as a check box in version 6.1.1. This behavior has been corrected, so the field is displayed as a check box in XUI mode, the same as in GUI mode. However, be aware that the behavior of a toggle with custom validation is not identical to that of a toggle without custom validation.
SBXA-4666	Switching between tabs in XUI mode was significantly slower than in GUI mode in version 6.1.1. Performance tuning in several related areas improves the XUI client response times for displaying tabs in version 6.1.2.

Issue Number	Description
SBXA-4669	In multivalued fields that were defined as right-justified numeric (N) input fields, an extraneous vertical bar was displayed in the text box in XUI mode. Version 6.1.2 contains a fix, and the vertical bar no longer appears in these fields.
SBXA-4687	By design, the F2 button on an output form does not contain a function key reference so that SB/XA can display "OK" or other text, depending on the language. As such, it was difficult to apply a style specific to an F2 button on an output screen. In version 6.1.2, you can use any of four new properties to define the button: IsHelpButton, IsSaveButton, IsIntuitiveHelpButton, or IsDeleteButton.
SBXA-4688	If two users were logged in and had a total of five GUI and XUI client sessions open at the same time, running the /LISTU process returned an unclear message, "5 SB+ Users Logged In, Max Number of SB+ Users 2." The first segment of the message text has been changed so it now reads, "5 SB+ Sessions."
SBXA-4695	An ampersand (&) character painted on a screen or included in a field label was not displayed in the XUI clients. A code revision resolves this problem in version 6.1.2.
SBXA-4697	If the Auto Accept Radio Buttons parameter was set to "Remain" in SB Control Parameters (/SB.PARMS), users were unable to click radio buttons in the XUI clients. A code fix corrects this behavior in version 6.1.2, and radio buttons can be clicked when the setting is "Remain."
SBXA-4702	When running a /WORD.MERGE process in the XUI clients, no message was displayed if the C:\TEMP directory did not exist, and it looked like the process had stopped working. In version 6.1.2, if the C:\TEMP directory does not already exist, a dialog box is displayed, asking if you want to create this directory.
SBXA-4714	In the XUI clients, if a check box was set to True (selected), when you placed focus on the check box, the check box was cleared (False). When you placed focus elsewhere, the check box was again selected (True). This behavior has been corrected in version 6.1.2, and changes in focus no longer affect whether the check box is displayed as selected or cleared.
SBXA-4718	After setting the Pwd Rollover Date parameter in version 6.1.1, a prompt to change the password was displayed repeatedly in SB/XA Rich Client. This issue has been resolved in version 6.1.2.
SBXA-4719	In XUI mode, a changed password was assigned to the wrong user ID under certain circumstances. If a user logged on with a user ID such as "DEMO," changed the password of that user, set the value of New Pwd Next Login to "Y" or left the field blank, saved changes, restarted the client, logged on again as the DEMO user, and changed the password for the DEMO user a second time, the new password became the password of the SB user rather than that of the DEMO user. The code has been amended to pass the correct SB user name to SB/XA Communications Server, preventing this problem in version 6.1.2.
SBXA-4737	The Esc (Escape) key did not behave correctly when viewing report output in the XUI clients. The problem was due to a flaw in the Escape key binding, and has been corrected in version 6.1.2.
SBXA-4754	The scrolling behavior in multivalued grids has been changed in version 6.1.2 so that if no data is visible in the grid and the user presses Enter to leave the grid, the grid scrolls to the first page containing data.

Issue Number	Description
SBXA-4758	After selecting an item from the main menu when a form is active, pressing the Esc key more than three times in the form caused SB/XA Browser Client or SB/XA Rich Client to fail. The code for the XUI clients has been modified to work in the same way as SBClient. If the user selects an option from the main menu while in a form, the form is disabled until the user presses Esc to close the menu.
SBXA-4766	In the Change Password (/CHANGE.PWD) window, passwords were not masked in the XUI clients. This issue has been fixed.
SBXA-4776	When searching in an intuitive help window, the search results in some cases displayed the correct record for a few seconds, but then returned to a previous selection. The code has been changed to prevent this problem in version 6.1.2.
SBXA-4796	In User Flags (/USER.FLAGS) running in XUI mode, timeout parameters were saved incorrectly on a subscreen. In the Define Keyboard Timeout subscreen, if you entered the password, changed the timeout values by pressing Enter in every field, and then closed the subscreen, the changes were saved. If you then pressed F2 on the main User Flags screen to save changes, the changes to the timeout settings were discarded. In version 6.1.2, an F2 (Save) button has been added on the timeout subscreen, and the user must click the F2 button or press the F2 key to save timeout parameters on the subscreen.
SBXA-4800	In the Communications Server Connection window, if the user clicked the Test Connection button and the test produced an error, pressing the Esc (Escape) key caused the XUI client to fail. The code has been amended in version 6.1.2, so pressing Esc closes the error dialog box as designed.

SBXA-4818	A customer requested the ability to cancel a form destroy event as a measure to prevent the user from closing the form. This functionality can be achieved by doing the following:
	
	 First listen from the SBFormCreated event, and attach a command listener to the SBCloseWindowCommand.
	
	 ```static void HandleSBFormCreated(object sender, SBFormCreatedEventArgs e)\n{\nSBPlusClient.LogInformation(string.Format("Form created is {0}.", e.SBObj\n((SBForm) e.Form).CommandBindings.Add(_SBWindowCloseCommandBinding);\n// to catch all the close events.\n}```
	
	 After catching the command, let SB/XA close the window normally by passing the command on to SBPlus or by swallowing the command so the window will not be closed.
	
	 ```static void ExecutedSBWindowCloseCommand(object sender, ExecutedRoutedEv\n{\nif (sender is SBCustomForm)\n{ SBCustomForm sbForm = (sender as SBCustomForm); e.Handled = true;\n// Add logic here to act on the close\n//MessageBox.Show("You cannot close these Windows");\nSBPlusClient.DestroyForm(sbForm); }\nelse\n{ SBCommands.SBCloseWindowCommand.Execute(e.Parameter, SBPlus.Current);\n}```

SBXA-4822	A paragraph that performed field validation did not set FieldDefinition.HasIntutiveHelp to True. This problem has been corrected.

Issue Number	Description
SBXA-4825	When configuring Communications Server Connections in the XUI clients, the client failed if the user attempted to add a connection with the ReliableSessionPmpt and EndpointSecurityPmpt fields blank. In version 6.1.2, a change to the configuration code allows you to add a connection with these fields blank.
SBXA-4829	In the UniVerse for UNIX edition, if the record ID contained a decimal point, data in the associated field was not displayed correctly in the XUI clients. A change to the way in which the conversion code is applied prevents this problem in version 6.1.2.
SBXA-4831	On starting SB/XA Browser Client or SB/XA Rich Client, the Connect to Application dialog box is displayed. If you clicked Options > Communication Server Configuration in this dialog box, and then clicked Save or Cancel, the mouse became unresponsive, although the keyboard remained active. This issue has been resolved in version 6.1.2, so the mouse works as expected and the session no longer appears to be unresponsive.
SBXA-4833, SBXA-4896	If a radio button had focus in XUI mode, keystrokes (such as pressing the Tab key or pressing F2 to save) had no effect until focus was placed in another field. At that point, the keystroke(s) were replayed and the action performed. This behavior has been corrected so the client processes keystrokes when a radio button has focus.
SBXA-4841	When working in a new group record that is a child of the ROOT group, the client returned a "PARENT RECORD NOT FOUND ON FILE" error. Changes to the group administration code prevent this problem in version 6.1.2.
SBXA-4843	In the UniData edition, Report Writer reports output to the XPS Viewer echoed characters to the debug window. A code fix corrects this issue in version 6.1.2.
SBXA-4846	Downloading and caching of theme dynamic link libraries (DLLs) in a multiple-application environment has been improved in version 6.1.2, as follows: ▪ If a theme DLL is not cached in the global file of the specific application, the global file of the SB/XA application is checked. ▪ If the item cannot be found, the DLL is downloaded again.
SBXA-4849	In the UniVerse for UNIX edition of version 6.1.1, the Amend Licence Details (/LICENCE.AMEND) screen contained extra fields that had been removed from the Windows version of the screen at version 6.0.1. The extra fields have been removed from the UNIX screen in version 6.1.2, so it now matches the Windows screen.
SBXA-4851	In the UniVerse edition on Windows, the WORD demo program returned an error and shut down the client session in the GUI and XUI clients. A fix prevents this error in version 6.1.2
SBXA-4852	When an input screen with a multivalued grid had at least one tabbed screen, SETATTR did not work to hide a column in the grid. This issue has been resolved in version 6.1.2, and the column is hidden as expected.
SBXA-4860	SB/XA error messages from Microsoft .NET did not allow for the scroll bar in sizing the error window, so the scroll bar partially obscured the message text. This has been fixed.
SBXA-4861	Running a GETATTR statement on G.DRAWABLE and G.EMPHASIZED objects returned different values in GUI mode than in XUI mode. If the object was not found, the GUI client returned a null value, and the XUI client returned a 0. The GETATTR function has been corrected to return " " when the object is not found.
SBXA-4871	The change password (/CHANGE.PWD) process did not validate the password correctly in version 6.1.1. This has been fixed.

Issue Number	Description
SBXA-4873	If you have defined only one application, the application is intended to open automatically at login. However, in version 6.1.1, the Connect to Application window was displayed, prompting the user to select the application. A code fix has resolved this problem in version 6.1.2.
SBXA-4876	Previously, an account upgrade was performed only when there was a change in the first and second elements of the version number. The third element (patch number) was ignored. As of version 6.1.2, the installation program reads the first three elements (version number, release number, and patch number) from the VOC of the application account. If these elements do not match those in DMCONT, the program performs an upgrade. On installing version 6.1.2 for the first time, the patch number will not be in the application account, so the program performs an upgrade. At the end of the upgrade, the version number, release number, and patch number are written to the application VOC.
SBXA-4894	When using the Ensign option within a selection process called from an F3 Help lookup, the umlaut character in items of the selection list triggered a Microsoft .NET warning in the GUI and XUI clients. After a fix in version 6.1.2, F3 lookups are able to correctly display an umlaut character in items of the selection list.
SBXA-4902	When an output process definition (/PD.O) specified a grid to use in displaying the screen, the screen was displayed without a grid in GUI mode. This problem has been resolved in version 6.1.2.
SBXA-4916	If the primary screen with an interleaved grid did not have a numeric suffix and a secondary screen with an interleaved grid had a numeric suffix, the interleaved grid on the secondary screen did not display as an interleaved grid. This issue has been addressed in version 6.1.2, and the interleaved grid now displays on the secondary screen as designed.
SBXA-4926	If the system-level flag in the System Control Record (/HK.CONTROL) was set to not use tabfolders in linked screens, the System Control Record and SB Control Parameters (/SB.PARMS) forms did not have tabs in GUI or XUI mode. In version 6.1.2, these forms display tabs regardless of the setting in the tabfolders flag.
SBXA-4927	If a GUI object name for a button bar definition contained a dollar sign ($) character, the XUI clients were unable to handle the object name. With a fix in version 6.1.2, the XUI clients can now manage object names with special symbols, and the object names no longer cause problems in Microsoft .NET in XUI mode.
SBXA-4930	Version 6.1.2 fixes a memory leak on tabbed forms in the XUI clients.
SBXA-4940	Performance tuning in version 6.1.2 improves the system response time in displaying default values for fields in a grid.
SBXA-4942	In GUI mode, Report Writer output to PDF was displayed with oversized, blurry characters in version 6.1.1. A fix has been applied in version 6.1.2, and the PDF output is now displayed correctly in the GUI client.

Issue Number	Description
SBXA-4943	The XUI clients returned an error when users directed output from the XPS Viewer to e-mail on Microsoft Windows 64-bit operating systems running the 64-bit version of Microsoft Outlook 2010. This error occurred because the standard 32-bit SBXAMAPIBridge COM server is unable to communicate with the 64-bit version of Microsoft Outlook 2010. As a solution, the product now offers a 64-bit version of the COM server, named SBXAMAPIBridge64.exe, for use with the 64-bit version of Microsoft Outlook 2010. The 64-bit version has its own installer, named SBXAMAPIBridge64.msi. When SB/XA uses the 64-bit COM server, it can communicate with the 64-bit version of Microsoft Outlook 2010, and the error no longer occurs. The 32-bit version of the COM server, named SBXAMAPIBridge.exe, is still available. The installer for the 32-bit version is named SBXAMAPIBridge.msi.
SBXA-4947	In GUI mode, @OTHER.REC was not reinstated correctly when returning from another process invoked using a "/" command that also used @OTHER.REC. The code has been amended to correct this problem in version 6.1.2.
SBXA-4948	After a process or program changed the CNT variable in a multivalued field in previous 6.x versions, the cursor was not positioned correctly in the grid. The cursor behavior has been corrected in version 6.1.2 so it again works the same as in 5.4.x.
SBXA-4949	The syntax `@FORM.[tabno]*[fieldName]` did not work to set an attribute in a column of a standard grid on a tabbed form. This code phrase used a mixture of G-option and standard grid syntax, and the 6.1.1 GUI client was unable to interpret it. Version 6.1.2 adds support for this syntax to set attributes in a standard grid.
SBXA-4951	Pressing Enter in rapid succession to advance the cursor through a grid resulted in keystrokes being stacked and the application becoming unresponsive to input. The stored keystrokes were then played out after clicking in the cell that appeared to have focus. A flaw in the grid code has been addressed, preventing this problem in version 6.1.2.
SBXA-4973	If the primary screen and subscreens were output screens, combo boxes did not display default values in tabbed subscreens in the XUI clients. After a code fix in version 6.1.2, the default values are displayed as expected in XUI mode.
SBXA-4976	If you created a new user with a null password, the user was able to log in the first time, but subsequent login attempts failed. A fix is implemented in version 6.1.2, so the null password continues to work on subsequent logins.
SBXA-4983	G.COORDINATES have been implemented for GETATTR and SETATTR in SB/XA Browser Client and SB/XA Rich Client. Differences in form sizes and form border sizes mean that the location of the form in the XUI clients vary slightly from the position in SBClient for a given set of coordinates.
SBXA-4985	In the XUI clients, typing very rapidly in successive cells in a grid while working in debug mode sometimes resulted in lost values. A call to a keyboard buffer routine has been added to correct this problem.
SBXA-4991	Under certain circumstances, function keys executed a menu option rather than the expected function key process in the XUI clients. This issue has been resolved in version 6.1.2.
SBXA-5009	Version 6.1.2 implements changes to improve performance when setting a value in a field in SB/XA Browser Client and SB/XA Rich Client.
SBXA-5026	Documentation of XUIDATA has been added in General Help > Technical Information > COMMON.

Issue Number	Description
SBXA-5030	The Socket Timeout parameter pointed to the Char for XPS Tags field in character mode. In version 6.1.2, the Socket Timeout parameter is mapped to SB.CONTROL<34,15>, so it points to the correct field in character mode.
SBXA-5032	New fields have been added on the File Characteristics form: ▪ In the UniVerse edition, a Type field defines the file type. ▪ In the UniData edition, Dynamic and Recoverable fields were added.
SBXA-5036	The following fields have been added to the Printer Class Definition in version 6.1.2: ▪ Standard Columns ▪ Standard Rows ▪ Condensed Columns ▪ Condensed Rows When printing, SB/XA first checks the Stationery settings. If the Stationery settings are empty, it uses these new fields in the printer class definition to calculate the font size and the maximum number of characters to print across the page.
SBXA-5037	In XUI screens created in the Form Painter, if the Border Width property is left blank, the XUI client uses the default setting of 0, and the screen's side borders are displayed as expected. However, after changing the Border Width to 2 and changing it back again to 0, the screen is displayed without side borders. When you set a Border Width value, the Form Painter has no way to remove the setting. A forthcoming Tech Note provides a solution for creating a paragraph to remove the Border Width property from the form definition. After this property has been removed from the form definition, the side borders are once again displayed.
SBXA-5038	In screens with multiple tabs that extended beyond the width of the form, the tabs wrapped to a second row in GUI mode, but the form width increased to accommodate all tabs on a single row in XUI mode. This issue has been addressed so the tabs wrap in XUI mode the same as in GUI mode.
SBXA-5039	"Error from the client" messages were reported in the SROC.LOG file when there were no apparent problems with the XUI client. These messages were not protocol errors, but part of the normal messaging workflow. However, the message text was misleading, and these workflow messages are no longer reported in the log.
SBXA-5047	In previous versions, dialog boxes were centered on the main SB/XA window (MAINWIN), not on the form to which they relate. The code has been modified in version 6.1.2 so dialog boxes are now centered over the top form on the stack. In addition, message dialog boxes are set to display on the same monitor as the form to which they relate, which may not be on the same monitor as the MAINWIN.
SBXA-5073	In version 6.1.1, if a screen process contained input-derived fields that used @OTHER.REC, and the screen called a second screen process that also used the same functionality, when you pressed F2 (Update process) to return to the first screen, the common variable @OTHER.REC still contained the values from the second screen. The code has been amended in version 6.1.2, and @OTHER.REC is now refreshed from the stack when you press F2.
SBXA-5097	Pressing F3 to do an intuitive help lookup from a paragraph input statement caused the XUI clients to fail. This issue was due to a column width setting of "" (null) being interpreted as 0. A code fix prevents this problem in version 6.1.2.

Issue Number	Description
SBXA-5101	The ConfigurationPath parameter specifies the path of the central configuration file. This parameter worked correctly on the first use. However, on closing the XUI client, the CommunicationServerNameUser was saved in the local profile. The next time the user passed the ConfigurationPath parameter of another server, the XUI client did not use the data stored in the central configuration file; it instead used the information stored in the user profile. This problem has been resolved so the XUI client uses the data stored in the central configuration file.
SBXA-5108	After changing a user's password and setting the New Passwd Next Login field to Y in /SEC.USER.SETUP, the next time the user logged in, SB/XA prompted the user to enter and confirm a new password four times. This issue has been fixed in version 6.1.2, and the user is prompted only once to enter and confirm a new password.
SBXA-5114	Query Report Definition (QRD) reports output to the XPS Viewer did not use a condensed font and were truncated at 110 characters. This issue has been addressed in version 6.1.2, and QRD now honors the printer class parameters that control condensed font.
SBXA-5140	On the first time running a DOS to SB+ file transfer (/PD.LI) in GUI mode, the client encountered an internal "Code 515" error , and an error message dialog box was displayed. This error did not occur in the same process on subsequent runs. A fix has been applied in version 6.1.2, preventing the Code 515 error in GUI mode.
SBXA-5142	The intuitive help handler has been tuned to improve performance in grids in version 6.1.2.
SBXA-5158	When using SBXAUserNamePassword authentication, if you entered an invalid user name or password during the login process, the XUI clients returned a technical error message that was difficult to interpret. This authentication process has been altered to return a user-friendly error.
SBXA-5168	The SBXA Communications Server component is installed by default to the following path on computers running Windows Server 2003: C:\Documents and Settings\Default User\Local Settings\Application Data \Rocket Software
SBXA-5176	If you call a selection process from a field, you can modify the form position, size, column widths, and zoom factor. These settings are stored and displayed the next time you call intuitive help on the field. However, in version 6.1.1, if the intuitive help called a selection criteria form, the previous settings were not displayed. The fix for another issue resolved this problem in version 6.1.2.
SBXA-5193	In previous versions, the SB User field in the Single Sign-on screen restricted the user name to 8 characters. The length of this field has been increased to 20 characters to accommodate longer SB user names.
SBXA-5221	The output of a QRD report was empty if the data contained special characters, such as the ampersand (&). In version 6.1.2, a subroutine replaces the special characters in the data, and the report output is displayed without special characters.
SBXA-5283	The regenerate expressions (/REGEN.EXP) process did not clear the RTN.FLAG after displaying an "ERROR IN EXPRESSION" message. A fix to the regenerate expressions corrects this problem in version 6.1.2, and the RTN.FLAG is cleared after the error as expected.
SBXA-5319	Radio buttons with an ampersand (&) character in the button label and toggles with a text string including spaces did not behave correctly in the XUI clients. Both of these problems have been addressed in version 6.1.2.

Issue Number	Description
SBXA-5334	When connecting to an application, the default theme was downloaded multiple times. A code fix has been applied, correcting this problem in version 6.1.2.
SBXA-5340	With the Autologin parameter set to 1, if one user on the client computer was set up for Single Sign-on and another was not, the update password function failed when the Single Sign-on user attempted to connect to an application for the first time. The program tried to update the password for the user who was specified for application connection, not for the Single Sign-on user. This issue has been resolved.
SBXA-5341	After a process or program changed the CNT variable in a multivalued field in versions 6.0.2 and later, the cursor was not positioned correctly in the grid. The cursor behavior has been corrected in version 6.1.2 so it again works the same as in 6.0.1.

SB/XA v6.1.1 release notes

Build 3118
Release Date: October 2011
These release notes provide information about new features, enhancements, and fixes in SB/XA V6.1.1.

Special instructions

Upgrade Requires Deleting .config File
Due to revamping of endpoints in version 6.1.1, you must delete the SBXAComServer.config file when performing an upgrade. Ideally, you should delete the .config file before performing an upgrade. However, you can still delete the .config file after performing an upgrade. For details, see the description for this issue in the list below. SBXA-4858

What's new in SB/XA v6.1.1

New Options to Customize the Client-to-Communications Server (WCF) Protocol
A new set of options has been added to the SB/XA Client Configuration form, allowing you to optimize reliability and security of the client-to-Communications Server connection based on your needs. For further details, see the description for this enhancement in the list below. SBXA-4299

Option to Forego Reloading Themes and Assemblies
A new parameter has been added to the SB Control Parameters (/SB.PARMS) screen, providing the option to forego reloading themes and assemblies when logging to a different account. SBXA-4153

Enhancements to XPS Class and Printer Definition
SB/XA 6.1.1 implements a number of enhancements to the XPS class and printer definition. SBXA-4296

PrintTicket Support in XPS Viewer
The XPS Viewer implemented in SB/XA Browser Client and SB/XA Rich Client now supports Microsoft's PrintTicket technology.

The PrintTicket settings for the XPS.CLASS define the default print settings for report output directed to the XPS Viewer. You can override the default PrintTicket settings for the class by specifying different settings for report process definitions and query report definitions.

For details on defining PrintTicket settings for the XPS.CLASS, see Chapter 4, "Admin Menu," in *Administering SB/XA*.

For details on specifying PrintTicket settings for report process definitions (/PD.R) and query report definitions (/PD.E), see Chapter 3, "Main Tools," in the *SB/XA Reference*. SBXA-3649

Persistence of SBCustomForm Position

The position of SBCustomForm is now saved by default. If this is not the desired behavior, you can set the IsAutoPositionEnabled property to False. SBXA-4322

Security Error Message Clarified
The generic "ACCESS DENIED" message, triggered by three different error conditions in the security API, has been replaced with more descriptive messages. SBXA-4382

Performance Improvements
Version 6.1.1 contains enhancements to improve performance in two areas:

- Output of large QRD reports to the XPS Viewer. SBXA-4517

- Resource lookups and ease of working with resources when developing custom themes. SBXA-4531

Persistence of Changes to Intuitive Help Window
With the D (Default) option for Intuitive Help Display, changes to the intuitive help window size and position are remembered in the next session. SBXA-4684

New Features, enhancements, and fixes in SB/XA v6.1.1

The following issues were addressed in this release:

Issue Number	Description
SBXA-390, SBXA-3434	SBClient honors the AUTOLOGOUT flag set in the U2 data server, and the client is logged off automatically after the specified period of inactivity. However, due to differences in the architecture of SB/XA, the AUTOLOGOUT flag in UniData or UniVerse has no effect on SB/XA Browser Client or SB/XA Rich Client. The following enhancements have been made in version 6.1.1 to implement autologout functionality in the XUI clients: • A new field, **AUTOLOGOUT Time**, has been added in Group Security Setup (/SEC.GROUP.SETUP) for XUI only. This field allows you to set the number of minutes of inactivity that triggers autologout. If there is no interaction between SB/XA Application Server and the XUI client within this time, the client is logged off automatically. If the time-out value is 0, no time-out is set and the autologout feature is disabled. The time-out value is stored in the common variable XUIDATA<4,1>. If the time-out value is greater than 0, the autologout enablement parameter stored in XUIDATA<4,2> is set to a value of 1 (true, enabled). • For long-running client processes, the autologout feature can be disabled from the XUI clients by setting the property SBPlusClient.Current.KeepConnectionAlive = true. This flag has a Boolean value, either true or false. • If a server process needs to disable the autologout feature, it can change the common variable @XUIDATA<5,2>. A setting of 0 disables autologout, and a setting of 1 enables it.
SBXA-686	After using /MP to modify an execute UNIX command process (/PD.LUX), the process was saved to xxPROCESS with an incorrect type, and a blank message was displayed. The code has been amended to prevent this problem in version 6.1.1.
SBXA-848	When running an S:SSELECT statement to select a specified record ID, option P did not display a message if the specified record ID existed, but the multivalued field contained no values. This issue has been resolved so option P displays a message under these conditions.

Issue Number	Description
SBXA-1613	In the UniData edition, if SB.CONTROL <30,18> is set to show the long name in the locked record message, the message displayed the long name of the current user, rather than the user who locked the record. A fix has been applied in version 6.1.1, and the message now displays the correct user name.
SBXA-1629	In previous versions, the /LISTU process did not report active XUI sessions. This has been fixed.
SBXA-1681	SA.TRANSFER.SBPLUS did not work properly to transfer DMLANGUAGE.XX files. The file transfer process has been revised in version 6.1.1, and the DMLANGUAGE.XX files are transferred as expected in all editions.
SBXA-3380	A /PD.LX process was unable to execute a DOS command in XUI mode. This issue has been resolved.
SBXA-3391	In the UniVerse edition on AIX, it was sometimes necessary to double-click a radio button to register focus on it. A change to the order in which processes are executed resolves this problem in version 6.1.1, so single-clicking a radio button changes the focus to that element.
SBXA-3556	If the terminal ID was empty for each user in User Security Setup (/SEC.USER.SETUP), the default terminal emulation in Admin > Printers and Terminals > Port Configuration was not inherited at the user level. As a result, the user was prompted to enter a terminal ID at logon. The code has been revised in version 6.1.1 so that in this situation the user is not prompted to enter a terminal ID at logon.
SBXA-3649	The XPS Viewer implemented in SB/XA Browser Client and SB/XA Rich Client supports Microsoft's PrintTicket technology. A PrintTicket tab has been added to the Printer Class Definition (/PRINTER.CLASS) form, enabling you to define the print settings for XPS.CLASS. These settings apply to Report Writer, QRD, and TU.SEND.TO.PRINTER output directed to the XPS Viewer. You can override PrintTicket settings in either /PD.R or /PD.E.
SBXA-3675	Some examples in SBDEMO expect a TEMP folder in $SBTUPATH. In previous versions, the GUI or XUI client returned an error if the TEMP folder did not exist in $SBTUPATH. The server code has been revised in version 6.1.1 so that if the TEMP folder does not exist, it is created.
SBXA-3823	In the XUI clients, the /DEBUG process did not display the content of the common variable in the status line. Consequently, /DEBUG could not be used to debug applications in XUI mode. This issue has been corrected in version 6.1.1.
SBXA-3910	In SB/XA Browser Client or SB/XA Rich Client, if the user entered a nonexistent process name in /PD.LO and then pressed F8, a fatal error occurred. On clicking the OK button to dismiss the error message, the XUI client closed. With a code fix in version 6.1.1, this condition triggers a less severe error, and after dismissing the error message the user can continue working in the session.
SBXA-4027	The /CHANGE.PWD process did not work properly in character mode. After changing the password in character mode, validation of the new password failed at the next logon. This issue has been resolved in version 6.1.1.

Issue Number	Description
SBXA-4028	The default password validation routine failed to enforce the rule that the user cannot reuse any of the previous ten passwords. This has been fixed.
	The validation routine that checks for a null password is working as designed, but the U2 Developer Zone article "How to Deploy SB+ Password Validation" did not clearly state the conditions under which this check is performed:
	▪ The null password check is performed for non-ROOT group members only. A null password is not allowed for non-ROOT users.
	▪ The null password check is not performed for ROOT group members. A null password is allowed for ROOT users.
SBXA-4050	In previous versions, TU.LAUNCH.APP was looking for a key in the Registry that is no longer there. This subroutine has been changed so it does not look for a nonexistent key.
SBXA-4060	When loading a form in XUI mode, the message "Downloading GUI parameters" was not cleared from the status line after the form finished loading. With a fix in version 6.1.1, the message is cleared from the status line as expected.
SBXA-4092	Type 3 (painted) menus are not supported in XUI mode. This is a permanent restriction; there is no plan to add support for this functionality in the future. However, in version 6.1.0, the XUI client failed if the application attempted to display a Type 3 menu. This has been addressed in version 6.1.1, so a "Not Implemented" message is displayed when a Type 3 menu is encountered, and after dismissing the error message, the user can continue working in the client window.
SBXA-4106	The screen editor (/SE) did not honor the setting of the RTN.FLAG in a /PD.P if the Process Before SE Read or Process Before SE Write slot was set in the System Control Record (/HK.CONTROL). This issue has been resolved.
SBXA-4151	With terminal emulation set to Wyse 50, SBClient displays the Esc (escape) characters as a black box. The escape character should be displayed in the same color as the background color definition. This has been fixed in version 6.1.1.
SBXA-4153	A new parameter, "Reload theme on Logto," has been added to the SB Control Parameters (/SB.PARMS) screen. With the value set to "N," assemblies and themes are not reloaded on logging to a different account if the theme type and assembly versions are the same.
SBXA-4209	When an account name or system description (/HK.CONTROL) included an underscore character, the underscore was not displayed correctly in the UniVerse edition on UNIX in the XUI clients. Rather than displaying as a separate character, the underscore was placed under the next character. A fix corrects this problem in version 6.1.1.
SBXA-4213	In the UniData edition on Windows, if you create an account (/CREATE.ACCOUNT) in GUI mode. In previous versions, an extra backslash was added at the beginning of the path in the Full Account Path name, and it was necessary to delete the backslash before saving the new account. This issue has been resolved, and an extra backslash is no longer added to the Full Account Path.
SBXA-4239	For field definitions (/FD) with a conversion code such as OCONV in the F5 > F6 conversion process slot, an incorrect value was displayed if the REFRESH parameter was set to a value of 2 or -2. The code has been corrected to display the correct value in all modes.

Issue Number	Description
SBXA-4262, SBXA-4725	With focus on a combo box in the controlling multivalued field in XUI mode, "\" did not delete the selected row. Any invalid data in the combo box deleted the row, and selecting an item from the combo box did not place focus on the next field. These and other related problems with combo box controls were addressed in version 6.1.1, correcting unpredictable behaviors of combo boxes in XUI mode.

SBXA-4296	Several enhancements to the XPS class and printer definition have been implemented in SB/XA 6.1.1:
	
	▪ The XPS.CLASS and XPS.PRINTER definitions shipped with the product now define a default XPS Printer, so users are no longer required to select a printer when printing to screen.
	
	▪ The XPS.CLASS and XPS.PRINTER definitions now contain four predefined stationery types:
	
	    LETTER
	    LETTERLAND
	    A4
	
	    A4LAND
	
	▪ The XPS.CLASS and XPS.PRINTER definitions are always overwritten on an upgrade.
	
	▪ If page height and width are not defined for XPS printing, an error is displayed and the output is not printed to the screen.
	
	▪ If the character for XPS tags is not specified, the default of CHAR(8) is used.

Issue Number	Description

SBXA-4299	On the **SB/XA Client Configuration** form, a new set of Communications Server Connections options have been added, allowing you to select resilient/encrypted/non-encrypted sessions or enable/disable Windows Communication Foundation (WCF) reliability options.
	
	▪ The **Security** drop-down list contains three options. Not all options are available for all connection types (see table below).
	
	    ▫ **Message** – This option ensures a resilient and secure connection that survives temporary disconnection from the network (for example, when switching from LAN to wireless operation, where the client IP address may change). This option incurs the largest overhead, with a packet size approximately 10 times greater than that with the Transport security option.
	
	    ▫ **Transport** – This option ensures a connection that is confidential by encrypting with the AES-256 algorithm to prevent intermediaries from tampering with it. This option incurs approximately 10 percent greater overhead than the non-encrypted packet.
	
	    ▫ **None** – With this option, packets are not encrypted and the overhead is about the same as the SBClient-SBXA protocol.
	
	▪ The **Reliable** check box enables an additional guaranteed layer on top of the TCP-guaranteed transport options. When using Transport-level security, this option adds about 20 percent overhead to the packet size.
	
	<table><tr><th>Connection Type</th><th>Reliable</th><th>Security</th><th>Certificate</th></tr><tr><td>Windows</td><td>True or False</td><td>Message/Transport</td><td>N/A - Part of Windows security</td></tr><tr><td>WindowUserNamePassword</td><td>True or False</td><td>Message/Transport</td><td>Required</td></tr><tr><td>SBXAUserNamePassword</td><td>True or False</td><td>Message*/Transport*/None</td><td>*Required</td></tr></table>
	The default settings are Connection Type = Windows, Reliable = True, and Security = Message.
	
	* When using SBXAUserNamePassword connection with Message or Transport security, the cross-domain Windows credentials must be supplied by using the Windows Credential Manager. If you do not set up these credentials first, the connection fails and the user is not presented a logon prompt.

Issue Number	Description

SBXA-4301	Although it is not possible to place a field to the left or above the visible portion of a form in the GUI Form Painter, the coordinates can be set by entering them manually. In previous versions, when a control was outside the boundary of a form, scroll bars were added automatically and parts of the form were not visible at its default size in the XUI clients.
	
	This issue has been addressed in version 6.1.1 as follows:
	
	▪ If a control has a left (X) coordinate that is greater than the length of the form or a top (Y) coordinate that is greater than the depth of the form, the Visibility property of the control is set to Collapsed, and the form is displayed without scroll bars at its default size in XUI mode.
	
	▪ The GUI-to-XUI form conversion routine no longer reduces size of the GUI form when generating the XUI form. Therefore, XUI forms are larger by default, and this may cause scroll bars to be added automatically. The solution is to change the zoom level. You can do this in any of several ways:
	  ▪ by changing the default zoom factor in the centralized client configuration file, or
	  ▪ by changing the default zoom factor at the user level in the SB/XA Client Configuration form, or
	  ▪ by using the slider tool at the bottom of the main window in SB/XA Browser Client or SB/XA Rich Client.

SBXA-4310	If the user pressed F4 to delete a record in a combo box on an input field in XUI mode, the client did not display a confirmation dialog box. The confirmation is now displayed in XUI mode, making the behavior the same as in GUI and character modes.
SBXA-4314	If the owner of a custom child form was set as the SBWindow of a standard (non-custom) form, the child form was not minimized as expected after minimizing the main window in XUI mode. A code fix corrects this problem in version 6.1.1, and the child form is minimized along with the main window.
SBXA-4322	As an enhancement, SBCustomForm has been changed to save its position and reopen in the same location by default. If this is not the desired behavior, the IsAutoPositionEnabled property can be set to False. The custom control example project has been updated to reflect these changes.
SBXA-4326	In a /PD.P, SETATTR did not work properly to deemphasize a Toggle GUI object in the XUI clients. This issue has been resolved in version 6.1.1, and Toggle objects are deemphasized as expected.
SBXA-4347	After upgrading from version 5.x to 6.x, multiline grid headers displayed "_char10_" instead of the value assigned to CHAR(10). The upgrade process has been amended to correct this header issue.
SBXA-4377	When a function key in a screen definition (/SD) does not have an associated process, the function key should be shown as grayed out (unavailable). In previous versions, function keys without a process were grayed out as designed in GUI mode, but not in XUI mode. This behavior has been corrected in the XUI clients in version 6.1.1 .
SBXA-4382	The generic "ACCESS DENIED" message triggered by three different error conditions in the security API has been replaced with more descriptive messages: ▪ ONLY ROOT GROUP MEMBERS CAN CHANGE OWN RECORD ▪ PARENT GROUP IS NULL ▪ CURRENT GROUP IS NOT ROOT

Issue Number	Description
SBXA-4383	When editing a dictionary file in the text editor (/SE), the program prompts the user for a record ID. In previous versions, if the user pressed F3 to display a selection list of record IDs, the list was populated with data from the associated data file. This issue has been corrected so the selection list is populated with record IDs from the dictionary file, as expected.
SBXA-4394	The XUI clients behaved differently than SBClient on enforcing case sensitivity of the user ID at logon. For example, if the user ID was defined in uppercase and the user entered it in lowercase at the logon prompt, SBClient allowed the user to log on, but SB/XA Browser Client and SB/XA Rich Client did not. The logon program been changed in the XUI clients so the user ID field is no longer case-sensitive in version 6.1.1.
SBXA-4398	Query report definition (QRD) output to the XPS Viewer was blank in the UniVerse edition on UNIX. The cause of the problem was that SB/XA Browser Client and SB/XA Rich Client do not set the terminal type during logon. When the terminal type has not been set, the QRD output of Universe on UNIX is different that of Universe on Windows. To prevent potential problems in all editions, if the terminal type has not been set, a subroutine now sets the terminal type to VT220 before running the SORT command.
SBXA-4409	In XUI mode, buttons in dialog boxes were sized individually according to the length of text in each button. This behavior was inconsistent with that in GUI and Character modes, where buttons are sized uniformly based on the greatest length of text in any button. In version 6.1.1, an enhancement to the XUI clients makes button sizing consistent with other modes.
SBXA-4430	When running the TU.TO.EXCEL subroutine in the XUI client, a customer experienced data loss during the transfer of records to Microsoft Excel. A fix to the code that resizes the conversion buffer in the client prevents data loss during a TU.TO.EXCEL transfer in version 6.1.1.
SBXA-4432	In the UniVerse edition on UNIX, the Physical Printer Definition (/PHYSICAL.PRINTER) process displayed the Windows version of the form, with prompts for Windows-specific settings. This issue has been corrected so the UNIX version of the Physical Printer Definition form is displayed on UNIX systems in XUI mode.
SBXA-4434	In versions 6.1.0 and 6.0.5, fields were skipped when navigating with arrow keys in linked screens in XUI mode. A code fix resolves this problem in version 6.1.1.
SBXA-4444	The C option did not work when used with other options in /PD.LO. This issue has been resolved in version 6.1.1, so the C option works properly alone or with other options.
SBXA-4452	In input processes (/PD.I) with an option O (output) screen, the user was unable to establish focus by clicking the mouse in a grid in XUI mode. Consequently, the user was also unable to set the common variable @CNT and call another screen using a value from the grid. A code fix corrects these grid issues in version 6.1.1.
SBXA-4453	In screen definitions (/SD) containing a CIADE grid, the user was unable to establish focus by clicking the mouse in the grid in the XUI clients, and therefore was unable to set the common variable @CNT and call another screen using a value from the grid. The code has been amended to prevent these problems in version 6.1.1.
SBXA-4464	When tabbing through fields on the SB Control Parameters screen, the focus was placed on fields out of order. The tab order of fields on this screen has been corrected in the current version.

Issue Number	Description
SBXA-4470	The system failed on opening terminal settings screens from either of the following processes: ▪ /TERM (Admin > System House Keeping > Port Setup > Your Terminal Settings), or ▪ /SET.TERM (Admin > System House Keeping > Port Setup > System Default Term Def) The code has been amended in version 6.1.1 so terminal settings screens open without causing system failure.
SBXA-4476	When a user set a language code in User Security Setup and ran a process in GUI mode, the following error was displayed: "Couldn't create labelclass object W.QSHP1. Object Name already in use. 405,SBWIN_96_2*43*7" The display then switched from GUI mode to character mode. This error occurred because the GOPTIONUSED flag was not being set for multi-language, which caused a problem with a subroutine. In addition, the number of interleaved lines specified by the AMD.FLAG was not honored. Both of these problems have been addressed, so this error no longer occurs in version 6.1.1.
SBXA-4478	In XUI mode, QRD output to screen was presented in the Debug window if the Select List Name was specified in the Query Report Definition. This issue has been resolved, and QRD output is displayed in the XPS Viewer, as expected.
SBXA-4484	During an upgrade from a previous version, the process returned the following error after running SA.TRANSFER.SBPLUS: "Program 'SB.DISP': Line 488, Nonnumeric data when numeric required. Zero used." The upgrade process has been amended, preventing this error in version 6.1.1.
SBXA-4487	In a tabbed form, pressing F2 in the second tabbed page did not save and close the form in the XUI client. Instead, it left the form visible and displayed the menu. With a correction in version 6.1.1, F2 properly saves and closes the form.
SBXA-4490	The XUI client failed if a screen process was called from a type 1 menu that was called from a tabbed screen. A fix prevents this problem in version 6.1.1.
SBXA-4498	The keyboard shortcut "\" + Enter did not work to clear the field in the XUI clients. The code has been amended so this key sequence clears the field as expected in XUI mode.
SBXA-4504	In process definitions, using SETATTR to disable @MAINWIN menus did not work in the XUI clients. A fix was applied in version 6.1.1 so the phrase `SETATTR(@MAINWIN,"menu_disabled",1)` now works properly to disable menus in the main window in XUI mode.
SBXA-4512	TU.SCRIPT.CREATE worked properly in GUI mode, but not in XUI mode. This issue has been fixed.
SBXA-4517	In version 6.1.0, output of large QRD reports to the XPS Viewer was slow. The code has been revised to improve performance of QRD output to screen in version 6.1.1.
SBXA-4521	Setting the Conversion Source flag to G in the System Control Record (/HK.CONTROL) or in the SB Control Parameters (/SB.PARMS) screen caused corruption of generated pre-select screens. This problem no longer occurs in version 6.1.1.

Issue Number	Description
SBXA-4531	Version 6.1.1 improves performance of resource lookups in SB/XA and makes it easier to work with resources when developing custom themes. These improvements were accomplished by flattening resources for resource lookup, removing unused resources, and reorganizing resources as needed.
SBXA-4532	DISP 4 did not work as expected to disable MainWin menus and toolbars in the XUI clients. The code was revised in version 6.1.1 to disable both menus and toolbars in the main window in XUI mode.
SBXA-4535	In the UniVerse edition on UNIX, record locks did not display the user name in lock messages in XUI mode. As a related problem, long PIDs were not supported on UNIX systems. Both of these issues have been resolved in version 6.1.1.
SBXA-4544	The default font is different on various platforms, and variations in the run-time font pose a form control issue for screen developers. Previously, SB/XA did not offer a way to set the default font for an application running in XUI mode. In version 6.1.1, three new properties have been added for this purpose to the SBPlus class: DefaultFontFamily, DefaultFontSize, and DefaultFontWeight. If the DefaultFontFamily property is set to null (the default), the font falls back to the system desktop font.
SBXA-4548	Running the generate source code (/GC) process to compile a Report Writer report caused an error. A code fix prevents this problem in version 6.1.1.
SBXA-4552	When an account was moved to the "Accounts with restrictions" list in Group Security Setup (/SEC.GROUP.SETUP) and the user added an option to the SBSYSMENU, the new option was not displayed on the menu at logon. This issue has been corrected, and newly added options are displayed on the menu at the next logon.
SBXA-4560	In selection process definitions (/PD.S), using the W and H options together corrupted the selection process headings. This issue has been fixed in version 6.1.1.
SBXA-4563	If the Autologin flag was not set to Y in /SB.PARMS, and the default terminal was set to GUI in /TERM.CONFIG , and no terminals were defined for the user, the logon screen was not displayed in GUI mode. After changes to correct this issue, the logon screen is displayed in GUI mode, as designed.
SBXA-4567	When using centralized client configuration, deploying SB/XA Browser Client or SB/XA Rich Client with an SBXAConfiguration.xml file did not work properly. The user clicked the .application file in the central location to start the XUI client, and the SB/XA Communications Server host name was populated, but the SB/XA Communications Server Connection window appeared behind the Connect to Application window, and the user was unable to connect. With a fix in version 6.1.1, centralized client configuration works as documented and the user is able to connect to an application.
SBXA-4580	In version 6.1.0, AutoComplete combo boxes were not refreshed in tabbed forms in the XUI clients. This issue has been fixed in version 6.1.1.
SBXA-4581	When QRD output was directed to the XPS printer with a landscape stationery setting, the output was displayed in portrait page orientation. A code fix corrects this issue so the output is displayed properly in landscape orientation.
SBXA-4589	In forms created in the GUI Form Painter, radio button labels displayed an ampersand (&) before the keyboard shortcut character for the label, such as "b&lue". Note that keyboard shortcuts are not supported in radio buttons. This issue has been fixed in version 6.1.1, so if the button label is defined with an ampersand in the GUI Form Painter, the ampersand character is not displayed in the button label on the form at run time.

Issue Number	Description
SBXA-4624	This issue covers improvements to security in copying a user record to create a new user record.
SBXA-4629	In GUI mode, a derived field did not display its value in an Output type screen if the G (Non-grid) option was enabled on the process or in /HK.CONTROL. A fix resolves this problem in version 6.1.1.
SBXA-4630	On executing @REFRESH=-2 in a Process After slot in a multivalued field, the values in derived fields that use the G option were cleared. After a correction to the code, the process works as designed and the derived fields are no longer cleared.
SBXA-4636	In some selection processes, when the user pressed F3 in a grid cell, focus left the grid and there was no way to return focus to the grid. A fix corrects this problem in version 6.1.1.
SBXA-4637	The "Close Form" ToolTip on the Close button was not translatable. With changes made in version 6.1.1, the ToolTip text can be translated.
SBXA-4638	The language translation file for German, de-CH, was not included in the RichClient folder on the product CD image. The file now resides in this folder in version 6.1.1.
SBXA-4643	When a selection process (/PD.S) contains a single field that is right-justified, the display fills up all of the space in the main window in GUI mode. In the same circumstances, the display was centered in the main window in XUI mode. This was due to a difference in the minimum width of grid displays between GUI and XUI modes. The code has been revised to adjust the minimum width of grids in XUI mode, so the display closely resembles that in GUI mode.
SBXA-4644	When executing a screen containing a multivalued field that was set to N (Non-updatable), the hourglass appeared and no further input was allowed. A fix has been applied in version 6.1.1, and this function is now working properly.
SBXA-4648	If the user changed the size and positioning of a selection process (/PD.S) window, these changes did not persist to the next session. In version 6.1.1, if the Intuitive Help Display parameter in /USER.FLAGS > GUI User Preferences is set to D (Default), the size and positioning of selection process windows are remembered.
SBXA-4651	Using GETATTR in a paragraph process (/PD.P) to get the title of the MainWin resulted in an error message in the XUI clients. The code has been amended and the error no longer occurs in version 6.1.1.
SBXA-4652	In selection processes (/PD.S), grids displayed fewer rows by default in XUI mode than in GUI mode. The developer can now control the depth of a selection process grid in XUI mode by setting the Depth element in the Window Co-Ords field in /PD.S.
SBXA-4656	Resolved a problem with switching from Windows authentication to SBXAUserNamePassword authentication.
SBXA-4660	In a tabbed screen, if the user entered a record key in the first tab, pressed Enter to read in the record, and then clicked the second tab to open it, the record key was missing from the second tabbed page. This issue has been fixed.
SBXA-4668, SBXA-4821	Various keyboard buffering issues have been addressed to prevent unexpected behaviors in version 6.1.1.

Issue Number	Description
SBXA-4677, SBXA-4722	A problem occurred when using two monitors if Center GUI Screens was set to "No" in User Flags (/USER.FLAGS) > F6-GUI Prefs, so form position is remembered. If the user opened a form on the second monitor, closed the form, disabled display on the second monitor via Screen resolution, and then reopened the form, the form was displayed outside the visible bounds of the main monitor. The code has been amended so that if the user disables the second monitor in this situation, forms are displayed on the main monitor.
SBXA-4679	Previously, the width of XUI screens was based on the width of the screen title, while in GUI mode this was not a factor. In version 6.1.1, the width of XUI screens is no longer determined by the width of the screen title, so XUI screens look similar to their GUI counterparts.
SBXA-4684	The Intuitive Help Display setting in /USER.FLAGS > GUI User Preferences controls the position of the intuitive help window. In previous versions, the XUI clients disregarded this setting, and the intuitive help window sometimes appeared partially off the monitor. SB/XA Browser Client and SB/XA Rich Client now honor the GUI setting. As an enhancement, if the user chooses the D (Default) option for Intuitive Help Display, changes to the intuitive help window size and position persist in the next session.
SBXA-4700	This issue adressed two problems with WORD.MERGE in DEMOBP: ▪ When running the program WORD.MERGE in DEMOBP, the first file was downloaded to the PC, but the second file was not. The program stopped responding between the first download and the second download. ▪ The dictionary item for COLOUR in CARS could not be listed. LIST CARS COLOUR did not work. Both problems have been resolved in version 6.1.1.
SBXA-4732	In the XUI clients, if the /HTML process was called with a nonexistent directory, the client failed. This issue has been resolved in version 6.1.1.
SBXA-4753	When a Smart Query was imported to QRD, an error occurred and the report was not created if QRD encountered an invalid character. The code has been changed so QRD replaces invalid characters with an underscore. After replacing invalid characters, if the first character of the key would then be an underscore (such as "_ABC"), the key is constructed of the characters that follow the underscore ("ABC").
SBXA-4828	If the G.DRAWABLE property was set to 0 (hidden) on the field after a G-option grid, the XUI client failed when attempting to leave the grid. With a correction in version 6.1.1, a hidden field after a G-option grid no longer causes this problem.
SBXA-4838	When executing an input screen containing a button object with an in-line expression in the XUI clients, the client returned an error, "Line 1 - error in expression." The code has been fixed to prevent this error in version 6.1.1.

Issue Number	Description
SBXA-4858	The XUI clients report an error and fail to connect if SB/XA Communications Server has been upgraded or reinstalled on a machine on which any version prior to 6.1.1 GA was installed, including pre-release builds or beta versions. This is because SB/XA Communications Server uses the configuration from the older version, which does not include endpoint information.
	This issue will be resolved by a code fix in version 6.1.2. Until then, perform the following steps as a workaround:
	1. Close SB/XA Browser Client or SB/XA Rich Client. 2. From **Start > Control Panel > Administrative Tools > Services**, stop the SB/XA Communications Server service. 3. Delete the SB/XA Communications Server configuration file, named SBXAComServer.config. The location of this file depends on the operating system: **Windows 7** C:\Windows\System32\config\systemprofile\AppData\Local\Rocket Software\SBXAComServer.config **Windows XP/2003** C:\Documents and Settings\LocalService\Local Settings\Application Data\Rocket Software\SBXAComServer.config or C:\Windows\system32\config\systemprofile\Local Settings\Application Data\Vendor\Rocket Software\SBXAComServer.config or C:\Documents and Settings\Default User\Local Settings\Application Data\Rocket Software\SBXAComServer.config 4. Restart the SB/XA Communications Server service so deletion of the .config file takes effect. A new .config file with the required endpoint information is created automatically when the service restarts.

SB/XA v6.0.5 release notes

Build 2501
Release Date: January 2011
These release notes provide information about fixes in SB/XA v6.0.5.

Fixes in SB/XA v6.0.5

The following issues were addressed in this release:

Issue Number	Description
SBXA-1645	**Form Feed Missing from Reports Printed from XUI Clients** In versions 6.0.2 and later, CHAR(12) (the form feed) was missing from reports printed to a system printer from SB/XA Browser Client and SB/XA Rich Client on UniData. This issue has been resolved in version 6.0.5.
SBXA-3847	**Issue with Toggles Is Resolved** Toggle controls did not work properly in version 6.0.4. If the user changed a toggle setting, the new setting was not saved. For example, if the user cleared a check box, saved the record, and opened the same record again, the check box displayed a check mark even though it had been cleared. A fix corrects this problem in version 6.0.5, and toggles now work as designed.

Issue Number	Description
SBXA-3857	**Corrections to /REGEN.EXP** In version 6.0.4, the /REGEN.EXP process produced errors when regenerating expressions for certain files in the SBDEMO and SB accounts. The application code for the /REGEN.EXP process has been amended, preventing these errors in version 6.0.5.

SB/XA v6.0.4 release notes

Build 2422
Release Date: December 2010
These release notes provide information about new features, enhancements, and fixes in SB/XA v6.0.4.

What's new in SB/XA v6.0.4

Increase in number of driver steps per screen
The limit on the number of driver steps per screen has been increased from 700 to 1400. This enhancement allows for more fields in a set of linked or tabbed screens. SBXA-813

New process to generate XUI forms
Version 6.0.4 implements a new process named REGEN.XUI to generate XUI forms. This process performs a similar function as the /REGEN.GUI process, but for XUI forms. SBXA-1689

Keyboard buffer fixed
Problems with the keyboard buffer in the XUI clients have been fixed. SBXA-2095

New process to clear drivers
A new process named CLEAR.DRIVERS has been added in version 6.0.4, enabling users to clear the xxDRIVERS for the current system. SBXA-2528

Option to regenerate only data files
An enhancement to the regenerate expressions process (/REGEN.EXP) allows you to regenerate only data files and not the xxDEFN and xxPROCESS files. SBXA-3526

Enhancements and fixes in SB/XA v6.0.4

The following issues were addressed in this release:

Issue Number	Description
SBXA-41	**Process After Grid Display Removed from Non-Output Screens** The Process After Grid Display slot is relevant only to output screens (in /PD.O > F5 - GUI Parameters), but it was implemented in /PD.I input screens, /PD.H shell wrapper processes and /PD.T transaction processes in previous versions. This slot has been removed from all screens except /PD.O output screens.
SBXA-57	**Style Edits in GUI Form Painter Carry through to XUI Mode** In version 6.0.1 or later, if you removed a XAML style from a button in the GUI Form Painter (/SD), saved changes, and then ran the form in XUI mode, the button was displayed in the original style in the XUI form. With a correction in version 6.0.4, changes to styles in GUI mode are also applied in XUI mode.

Issue Number	Description
SBXA-159	**Fix to Prevent Looping Password Prompt in XUI Clients** In versions 6.0.2 and 6.0.3, if the Autologin flag was set to 0 or 2 and New Pwd Next Login was set to Y in the user security record, the prompt to enter a new password was displayed repeatedly when the user attempted to log on to SB/XA in the XUI clients. A fix in version 6.0.4 resets the password, preventing the looping prompt in XUI mode.
SBXA-161	**Restrictions Now Apply to F3 List of Available Printers** If available printers were defined for a user in User Security Setup (/SEC.USER.SETUP > F7-Term/Prnt) and the user pressed F3 to see a list of available printers when logging on in GUI or XUI mode, the F3 display list was not limited to include only those printers defined for the user. In version 6.0.4, the F3 list is limited to the printers that have been defined for the user in User Security Setup.
SBXA-166	**New Slot for Styling a Dialog Box** SB/XA versions 6.0.3 and earlier did not provide a means to style a single dialog box. At version 6.0.4, a slot for the XAML style name has been added to the DIALOG.DEFN screen.
SBXA-168	**Failed Logon through Remote Process Returns License Information to UO** When a user attempts to connect to SB/XA through UniObjects (UO) using a remote process, the logon fails if there is an insufficient number of licenses available for the remote process. SB/XA did not return information to the UO session to indicate that logon was denied because there were not enough licenses available. With an enhancement in version 6.0.4, SB/XA returns this information for all types of remote process connections.
SBXA-169	**Phrases in Selection Process Now Return Correct Fields** If you created two phrases, each to display multiple fields, and then created a selection process to display those two phrases as the output fields, the phrases did not return the correct fields. This issue has been resolved in version 6.0.4 so each phrase returns the correct fields in their proper order.
SBXA-176	**Report after Running /RELEASE.LICENSES Now Shown as DISP 4** When running the /RELEASE.LICENSES process, if you entered a response of Yes to release invalid licenses, the list of invalid ports was shown as a DISP 3. if you responded with No, the list was shown as a DISP 4, as expected. The code has been corrected in version 6.0.4 so the list of invalid ports is consistently shown as a DISP 4.
SBXA-179	**/SB.INITIATE Process Creates Pointer to SROC.LOG** If you ran the /SB.INITIATE process to Initiate SB in an account and create an initial system ID, the process did not create a pointer to SROC.LOG, and the user was unable to log on to the account until the pointer was created manually. The /SB.INITIATE process has been fixed in version 6.0.4 to create a pointer to SROC.LOG, as designed.
SBXA-184	**Correction of Typographical Error in XAML Code Snippets** A typographical error in a field label on the XAML Code Snippets Foreground screen has been corrected from "Foregorund" to "Foreground".
SBXA-187	**Increased Width of /FD Combo Boxes** In the Global Field Definition screen (/FD), three combo boxes were not wide enough to display values properly in GUI or XUI mode. This has been fixed.

Issue Number	Description
SBXA-194	**Image Access in XPS Viewer** When printing reports with images to the screen with the XPS Viewer, an error sometimes occurred, stating that "The process cannot access the file [image_filename] because it is being used by another process." The problem was caused by XPS documents keeping images locked while the XPS Viewer was still in memory. As there can be a delay between the XPS Viewer being closed and the image memory being released, the code was modified to load images into memory so the image file is not locked after the image is loaded. In addition, the XPS Viewer instance is now disposed of on closing, so image memory is always released.
SBXA-202	**Functionality of License Details Button Is Reinstated** When logging on to SB/XA, the license reminder window is displayed if the user has not yet entered license information. On clicking the License Details button to enter license information in versions 6.0.2 and 6.0.3, SB/XA did not open the License Details screen and continued loading, the same as if the user had clicked the Continue button. After a code fix in version 6.0.4, this button again works as expected.
SBXA-226	**@CNT Value Now Set Correctly on Deleting MV with Alternative Character** In GUI mode, if a screen contained a controlling field with a process after and the user deleted a multivalue using an alternative delete character, the @CNT value was set incorrectly. A code fix resolves this problem in version 6.0.4.
SBXA-275	**Grid Column Heading on Car Maintenance Screen** In the SBDEMO account UniData Windows edition, the heading for the Date column of the Service History grid on the Car Maintenance screen (Maintenance > Cars) was missing. This problem has been fixed and the Date heading is displayed as normal.
SBXA-318	**File Description Cleared after /FDEL Process Completes** After running the /FDEL (file delete) process in XUI mode, the file description was not cleared after the process completed. This issue has been fixed, so the description is cleared in XUI mode, the same as in character and GUI modes.
SBXA-397	**Scroll Bar in Grids with Fixed Footer Row** If you add a fixed footer row to a grid, the initial grid size is one line plus the footer. Due to a flaw in versions 6.0.1 and later, a scroll bar was never displayed after sufficient records were added to the grid, so the bottom of the grid was eventually off the screen. The code for displaying the scroll bar has been revised in version 6.0.4.
SBXA-400	**Fix for Sending Office Messages from XUI Clients** In version 6.0.1 or later, sending an Office message from a XUI client caused the client to fail. A correction to the Office messaging code has been applied, preventing this problem in version 6.0.4.
SBXA-524	**Uninstall Program Altered** The uninstall program no longer deletes the application data directory automatically.
SBXA-755	**Copy Group Function Fixed to Copy $ Items** In SB/XA 6.0.3 and earlier, the Copy Group function (Admin > Security > Group Security Setup > F10-Action > Copy Group) did not copy relevant $ items in DMSECURITY. This issue has been resolved in version 6.0.4.

Issue Number	Description
SBXA-813	**Increased Number of Driver Steps Per Screen** With this enhancement, the limit on the number of driver steps per screen has been increased from 700 to 1400.
SBXA-972	**Fix to Display Data in Correct Grid Columns** Under certain conditions, data was not displayed in the appropriate grid columns in GUI mode in versions 5.3.4 and later. The code has been amended in version 6.0.4 so the data displays in the proper columns.
SBXA-1016	**Transaction Locking Inside SB Routines** When running transactions inside SB routines in version 5.2.4 or later, the routine encountered problems with transaction locking and produced the error, "The locks necessary for database operations at the current isolation level (0) are not held by this process. Rolling back uncommitted transactions begun within this execution environment." The transaction locking logic has been overhauled in version 6.0.4, and this problem no longer occurs.
SBXA-1149	**Display of Controls in Windows Aero Theme** In previous versions, buttons and other controls did not display properly in GUI mode on Vista/Windows 7 when the Aero theme was selected. The Aero theme uses larger fonts by default, causing menus to wrap and buttons to be cut off at the bottom of the screen. The size of input screens (/PD.I) and output screens (/PD.O) has been increased in version 6.0.4 so buttons, menus, and other controls are displayed correctly.
SBXA-1187	**Issue with Tag Text in Dialog Box Title or Description** In SB/XA Rich Client or SB/XA Browser Client, if a dialog box title or description contained a line break, the tag "</LineBreak>" was displayed as text in the title or description, rather than being executed as a action. A fix corrects this issue in version 6.0.4.
SBXA-1213	**Cleanup of 3D Grid Example** Various issues with the 3D grid example in the XAML Examples (XA) application of the SBDEMO account have been cleaned up in version 6.0.4.
SBXA-1238	**Behavior of X Button Altered in SB/XA Rich Client** In both SB/XA Rich Client and SB/XA Browser Client, the behavior of the X (Close) button in the upper right corner of the window was different than in GUI mode. Clicking the X button in either XUI client closed the session, rather than return to the previous menu. A new user preference named SendEscOnClose has been added in version 6.0.4. If this flag is set True (or 1), clicking the X button in SB/XA Rich Client returns to the previous menu, the same as in GUI mode. However, the behavior of the X button in the SB/XA Browser Client is controlled by the internet browser, so clicking this button performs the standard action of closing the window, which ends the session.
SBXA-1310	**Remote Process Returns Error Message to App** If the SB.REMOTE.PROCESS was executed when no SB/XA licenses were available, it did not return a meaningful and trappable error code and message to the invoking application. The code has been amended to return a predefined error message to the application if a dialog box is called by a remote process.

Issue Number	Description
SBXA-1327	**New Process /REGEN.XUI Rebuilds XUI Forms** After running the /REGEN.GDS process to regenerate GUI default settings, the process rebuilt only GUI forms, and changes were not applied in XUI forms. As of version 6.0.4, the new process /REGEN.XUI process rebuilds the XUI definition in the file dictionary.
SBXA-1381	**Width of Date Fields Increased in Logon Times** In the Group Security Setup /SEC.GROUP.SETUP > F7-Logon Times screen, the From Day and Up to Day fields were not wide enough to show the month, day, and year in mm/dd/yyyy format in the XUI clients. The width of these fields has been increased in version 6.0.4.
SBXA-1465	**Adjustments to Column Widths of Tables in XUI Mode** The column widths in tables were not the same between GUI and XUI modes. In GUI mode, (a) the column header row is displayed regardless of whether the T option is used in the S: statement to include the column header; (b) the column header is displayed even if the column contains no data, allowing users to manually increase the width of the column; and (c) a scroll bar is generated automatically. This same functionality has been implemented in the XUI clients in version 6.0.4, so tables behave the same XUI mode as in GUI mode.
SBXA-1480	**Autologin Error No Longer Loops** If a user who was set up for autologin (Autologin = 1) logged on to the UNIX operating system under one user ID (such as TEST) and then attempted to log on to SB/XA under a different user ID (such as DEMO), an error message regarding the failed autologin was displayed in an infinite loop. The only way to escape from the error was to close the client. Version 6.0.4 corrects this issue, so the error message is displayed only once.
SBXA-1533	**"Editable" Attribute Supported in XUI Clients** When users set the "Editable" attribute on a control such as SBToggle in a GUI form and ran the form in XUI mode, SB/XA returned a message similar to the following: "An error occurred calling editable on type 'SBToggle'. Failed to invoke the method 'SBEditable' in the class 'SBToggle'." To prevent this error, the Editable attribute is implemented in XUI mode in version 6.0.4.
SBXA-1562	**Correction of Report Writer Output to PDF Email Option** In version 5.4.4 or later, email parameters entered in the report process definition (/PD.R) for a Report Writer report were ignored at run-time when output to PDF. The PDF output function has been amended to parse email parameters correctly in version 6.0.4.
SBXA-1585	**Updates Made Using Toggle in MV Field Are Saved in XUI Clients** When a toggle was set on a multivalued field, updates to records in the multivalued field by using the toggle were saved in GUI mode, but not in XUI mode. A code fix in version 6.0.4 corrects this issue so changes are saved in both GUI and XUI modes.
SBXA-1593	**New Parameter for Inhibiting User's Ability to Change Security Record** A new flag called "Change Own User Security Record" has been added in SB Control Parameters (/SB.PARM > F5-System Defaults). This parameter provides the ability to inhibit users from changing their own user security record. The flag does not apply to members of the ROOT group; these users always retain the ability to change their own user security records.

Issue Number	Description
SBXA-1594	**Security API Supports Menu and Process Restrictions for Groups** The SB/XA security API has been extended to allow SB developers to create and update restrictions to the menu and process restrictions in group security through a UniBasic or UniVerse BASIC program.
SBXA-1597	**Job Schedule Process Runs Properly with Multilanguage On** In version 6.0.x with the Multilanguage option on, if a user called a process that first displayed a dialog box and then ran a /JSD job schedule process, the process terminated with the errors "DATE/TIME HAS ALREADY PASSED" and "Schedule Terminated [process_name]". A code fix corrects this issue in version 6.0.4.
SBXA-1605	**Improvements to XUI Crash Handling** When SB/XA issued the error message, "Object reference not set to an instance of an object," the XUI client became unresponsive after the user accepted the error. The user was unable to run any process via a menu or slash (/) process call. The code has been amended to improve the way the XUI clients handle failure and subsequent user response.
SBXA-1610	**Correction to Enforce Field Length in XUI Mode** The XUI clients allowed entry of any length of data in a field defined as A (alpha), even when the user flag AutoExtend Field Length was set to N. The /USER.FLAGS AutoExtend functionality was corrected in version 6.0.4 to enforce length limitations set on both single- and multivalued fields in XUI mode.
SBXA-1617	**Theme Set in /USER.FLAGS Not Executed as Default** If the user set a default theme in /USER.FLAGS, that theme was not loaded as the default theme. Instead, System Control Record (/HK.CONTROL) settings were used. The specified theme was used in the current session after the user saved /USER.FLAGS in the XUI client, but the next time the user logged on to SB/XA in the XUI client, the theme again was not loaded. These issues with the default theme set in /USER.FLAGS occurred because this field should have been read-only, as it represents the last theme used. It has been made read-only in version 6.0.4.
SBXA-1618	**Focus Retained on Escape from F1 Help in Tabbed/Linked Screens** After escaping from F1 help in tabbed or linked screens, focus was lost and the tabbed/linked screen was inoperable. The user had to press Esc to escape from the tabbed/linked screen and regain control in the parent screen. Version 6.0.4 corrects this problem; focus is returned to the field from which F1 help is called.
SBXA-1620	**Alpha Data in Numeric Display Field in /PD.S** When running a selection process (/PD.S) that included a display field defined as numeric and the data contained alpha characters, the selection process terminated the GUI client session. With a correction in version 6.0.4, the selection process runs as expected in GUI mode. The numeric field displays alpha data as '0' (zero).
SBXA-1621	**Fix for F3 Intuitive Help in MV Fields in XUI Clients** In version 6.0.3, F3 intuitive help returned nothing when called from a multivalued field with a data value in the XUI clients. After a code fix, F3 help works as expected: a selection list is presented when the user presses F3 from a multivalued field that contains data. The functionality is now consistent with GUI mode.

Issue Number	Description
SBXA-1624	**Issues with Setting Report Locations in /SEC.GROUP.SETUP** In the Group Security Setup /SEC.GROUP.SETUP>F8-Locations screen, F3 intuitive help did not return any report locations to the selection list. If the user entered a location name, this information was not retained after a save. These issues with the Locations screen have been resolved in version 6.0.4.
SBXA-1627	**Resolution of Corruption Issue when Typing Ahead with Data Stacking** In SB/XA Rich Client, typing ahead in screens with data stacking caused corruption of data in version 6.0.3. A code fix prevents this problem in version 6.0.4.
SBXA-1628	**Error Handling of /PD.S with Option E Headings Containing Value Marks** When executing a selection process (/PD.S) with option E (Display Ensign heading text), the output was displayed incorrectly if the heading text had an embedded value mark. In character and GUI modes, executing the /PD.S did not cause the client to fail. The heading text was displayed but the detail data was not. Part of the heading text was displayed in the first row of data. In XUI mode, the client returned the message, "Windows error: RocketSoftware U2 SB/XA has encountered a problem and needs to close. We are sorry for any inconvenience," and the client was closed. These issues have been corrected in version 6.0.4. The SB language converter has been changed to process exceptions such as an embedded value mark. If the heading text contains illegal symbols, the client logs an error message, and no dialog box is displayed.
SBXA-1639	**Null Password Is Now Allowed** A new flag called "Allow Null Password" has been added in SB+ Control Parameters (/SB.PARMS > F5-System Defaults). This parameter provides the ability to set the password as null. If the Allow Null Password flag in SB.PARMS is set to Yes, the Password field in User Security Setup (/SEC.USER.SETUP) can be left null, and the user will not be prompted to enter a new password at first logon. By default, the Allow Null Password flag is set to No.
SBXA-1642	**Empty Lines Cleared when Refreshing Grid in XUI Mode** When the user ran a subroutine that cleared the RECORD portion of a grid and then used @REFRESH=-2 , the data was updated but the empty lines were not cleared from the grid in XUI mode. For example, if the number of lines in the grid decreased from three to one, the second and third lines still displayed their previous values. The code has been amended in version 6.0.4; changing the data in the grid and then using @REFRESH=-2 to refresh it works as expected in XUI mode.
SBXA-1649	**Fix to Start Background Phantoms in UniData UNIX Edition** When running a phantom process in the UniData UNIX edition with the background option set to Y, the message "Starting phantom..." was displayed. but the phantom process was not started. The job schedule process has been amended to properly start phantoms that run in the background on UNIX platforms in version 6.0.4.

Issue Number	Description
SBXA-1653	**Scroll Bar Added for Type 1 Menus in XUI Forms** If a type 1 menu was too long to fully display within the area of a XUI form, a scroll bar was not added and users were unable to access options beyond the bottom of the form. In version 6.0.4, type 1 menus are now presented with a scroll bar if all menu options do not fit within the XUI form.
SBXA-1658	**LFK Style Is Now Applied to XUI Forms** If /SB.CONTROL <30,4> was set to 1 to use the new Load Function Keys (LFK) style for replacing function key buttons on forms in GUI mode, and /SB.PARMS flag "Use New LFK Style Buttons" was set to Y, the new LFK style was not applied to XUI forms. The function keys were loaded In the action bar of the main window. With these /SB.CONTROL and /SB.PARMS settings in version 6.0.4, function keys are presented as buttons within XUI forms as expected.
SBXA-1663	**Fix to Tag All Option in MV Fields in XUI Clients** In versions 6.0.2 and 6.0.3, using the F9-Select Tag > Tag All option on a multivalued field did not return all the data to the multivalued field in XUI mode. This issue has been fixed in version 6.0.4.
SBXA-1678	**Drill-down Process Slot Populated with @KEY Common Variable** When using the drill-down feature in a selection process (/PD.S> F6-Addit), the @KEY common variable was not passed to the process specified in the Drill-down Process slot. A fix corrects this problem in version 6.0.4.
SBXA-1680	**Default Printer Assigned by SETPTR in UniVerse UNIX Edition** SETPTR was not executed properly to assign a default printer when logging on to SB/XA in the UniVerse UNIX edition, using the AIX operating system. The code has been amended to correct this problem in version 6.0.4.
SBXA-1683	**Self-Contained Forms Flag Now Interpreted Correctly in XUI Mode** In previous versions, when the self-contained forms flag was set to Y in /SB.PARMS, /HK.CONTROL, or /USER.FLAGS, status lines were displayed outside of the main window in the XUI clients. This issue has been corrected so if the setting is Y, status lines are displayed on the bottom line of the form, the same as in GUI mode.
SBXA-1689	**New /REGEN.XUI Process** Version 6.0.4 implements a new process named REGEN.XUI to generate XUI forms. This process performs a similar function as the /REGEN.GUI process, but for XUI forms.
SBXA-1691	**Changes to SETATTR in Tabbed Screens in XUI Mode** If you used SETATTR to change the title in a screen definition for a tabbed screen, SB/XA returned the following error message when the screen was run in XUI mode: "An error occurred calling parent on type SBForm Failed to invoke the method 'parent' in the class 'SBForm'." This issue is partially addressed by a code fix in version 6.0.4. However, the user must make a change in the paragraph code to determine whether the XUI form is tabbed. Formerly, the property USER_DATA was checked for a value. In SB/XA, this property is not populated and therefore the property IsTabForm must be queried.

Issue Number	Description
SBXA-1692	**Field Value Mark in User Data No Longer Produces Error** If the User Data parameter in Additional Parameters contained a value mark for a field on a screen, the screen reported an error similar to the following when run in XUI mode: "Calling the Value property when there are more than 1 values in SbString is invalid. The string was ABC:@VM:DEF." The value mark had to be removed from the User Data field so the screen could be run in XUI mode. A fix is implemented in version 6.0.4, so User Data now stores value marks and does not throw an exception.
SBXA-1698	**New Flag to Prevent Overwriting Images** In previous versions, if an image did not exist in xxRESOURCE, the XUI client overwrote any image that existed on the client. A new flag has been added that allows the developer to decide if images should be downloaded from the server to the client, and if the image does not exist on the server, the server does not attempt to download the image to the client.
SBXA-1703	**Fix for XPS Viewer Issue in UniData UNIX Edition** After upgrading to version 6.0.2 or 6.0.3, the XPS Viewer did not appear when sending report output to the XPS printer in the UniData UNIX edition. To resolve this problem, the XPS.CLASS shipped with the product is now used when performing an upgrade, and is not overwritten by the XPS.CLASS from the customer's SB account.
SBXA-1704	**Display of Ampersand in Label in XUI Clients** The XUI clients stripped one ampersand from labels as follows: If a single ampersand character (&) was used as text in a label, the ampersand was displayed in GUI mode, but not in XUI mode. If two ampersand characters (&&) were used in a label, both were displayed in GUI mode, but only one was displayed in XUI mode. A fix corrects this issue in version 6.0.4.
SBXA-1708	**Toggle Description Displays in XUI Mode** In versions 6.0.2 and 6.0.3, if a toggle box had a length of 1, the description for the toggle was not shown in XUI mode. This issue has been resolved in version 6.0.4, so the toggle description is now shown in XUI mode, the same as in character and GUI modes.
SBXA-1725	**Changing Function Key Set via Subroutine Supported in XUI Mode** Changing the function key set programmatically via a subroutine worked with no problem in character and GUI modes, but placed the new buttons in the toolbar in XUI mode. This issue was related to the Load Function Keys (LFK) problem reported in SBXA-1658, and the fix for that issue resolved this one as well.
SBXA-1873	**SB.REMOTE.PROCESS Supports DISP 4 Dialog Boxes** Version 6.0.4 implements an enhancement that allows DISP 4 dialog boxes to be processed by SB.REMOTE.PROCESS.
SBXA-1942	**Expression as Output Filename** With this enhancement, users can enter an SB expression as the output filename for Report Writer reports output to HTML or PDF through Process Defn - Report (/PD.R).
SBXA-2095	**Keyboard Buffer Fixed** Problems with the keyboard buffer in the XUI clients have been fixed.

Issue Number	Description
SBXA-2394	**Title Bar of PDF Parameters Subscreen Fixed** The title bar of the Process Defn - Report (PD.R) > F6 - PDF Parameters subscreen was displayed out of position and contained a bad character on some platforms. This has been fixed in version 6.0.4.
SBXA-2408	**Correction of Hot Keys on Buttons in XUI Mode** Hot keys on buttons were not the same in the XUI clients as in GUI. For example, on Hire Details screen in the Car Rental System application of SBDEMO, the F5-Cars button had hot key C in GUI mode, but hot key "r" in XUI mode. The code has been amended to correct this issue in version 6.0.4, so XUI hot keys are the same as in GUI mode.
SBXA-2460	**Error Prevented on Escaping from Tools or General Help Menu** In General Help > Technical Information > GUI Features > SBExplorer (SBX), if you selected the Tools option, clicked the Tools link, and then escaped from the Tools menu, an error message "No Help HTMLControl available for focus!" was displayed. The same error also occurred with links to the General Help menu. In version 6.0.4, if normal processing does not find a help form, SBX checks the global form stack to find the form and display it.
SBXA-2467	**Correction to SB Help Submenu** In the F1 General Help > SB+ Readme's > Release 3 submenu, a menu item contained an ampersand (&) character. This has been fixed.
SBXA-2497	**Error Message in SB+ Host Name Field Is Now the Same in All Clients** In the SB+ Control Parameters (/SB.PARMS)>F8-Display Defaults>F5-GUI Display Defaults subscreen, if you enter an invalid character in SB+ Host Name, SB/XA returns the following error message in character and GUI modes: "NAME MAY NOT CONTAIN CHARACTERS +-...". However, in XUI mode, the error message was "Name cannot begin with the '>' character, hexadecimal value 0x3E. Line 1, position 418." In version 6.0.4, the text of the error message is now the same in XUI mode as in character and GUI modes.
SBXA-2528	**New /CLEAR.DRIVERS Process** A new process named CLEAR.DRIVERS has been added in version 6.0.4, enabling users to clear the xxDRIVERS for the current system.
SBXA-2530	**Fix for Object Error in /TERM.DEFN>F5-CUI Colors** In the Terminal Definition (/TERM.DEFN) screen in the XUI clients, if you opened the SGUI record, selected F5-CUI Colors, and then pressed Enter when the focus was on the Default Menu field or another field in the right column, SB/XA displayed the error, "Object SBWIN_101_3*13*5 does not exist!" A code fix prevents this error in version 6.0.4.
SBXA-2575	**Ask Option Added in Send to PDF Prompt** As an enhancement in version 6.0.4, the "Send to PDF (Y/N)" prompt in the Report Parameters screen has been changed to "Send to PDF (Y/N/A)" so SB/XA asks the user if the report is to be sent to PDF at run-time. With this change, it is not necessary to build and maintain one report for PDF and another for output to a physical printer.

Issue Number	Description
SBXA-2717	**Buttons Displayed in Preview Selection Screen in XUI Client** In the Enquiry> Car Models screen of the SBDEMO Car Rental System, if you press F3 on Model Code and select multiple models, the Selection Preview screen allows you to resequence the multiple selection. However, the buttons for resequencing, including Resequence and Goto, were missing in XUI mode. This issue has been corrected in version 6.0.4.
SBXA-2727	**Enhancements to /TRANSLATE Process** For customers who want to fully enable multilanguage support, the /TRANSLATE process has been enhanced to allow editing of DMCONT records. A new process named ML.MESSAGE in /TRANSLATE calls a screen for entering multilanguage translations for each of the following DMCONT items: MESSAGE, ERROR, DIALOG, PROMPT, GENERAL.TEXT, QUES.OPTS, STATUS.LINE, SCR.TEXT, and CALENDAR.TEXT.
SBXA-2864	**Video Button Not Implemented in XUI Clients** If you clicked the F8-Video button in I*CARS*S1 in SBDEMO in XUI mode, SB/XA returned the following error: "An error occurred calling gui_run_command on type SBPlus Failed to invoke the method "gui_run_command" in the class 'SBPlus'." The video feature is not yet available for the XUI clients, so a "Not implemented" message is displayed if the user clicks the Video button in version 6.0.4.
SBXA-2908	**F3 Intuitive Help for Super Search +** In versions 6.0.0 and later, F3 intuitive help did not work in Tools > Other Tools >Super Search +. F3 functionality has been fixed in version 6.0.4.
SBXA-3280	**New Log for Tracking Changes to HTML Template** An enhancement in version 6.0.4 enables customers to produce a log that tracks changes to the HTML template if the template is downloaded to the workstation, modified, and then uploaded. When the template is uploaded, SB/XA attempts to call HTML.UPLOAD.LOG as a log process. If HTML.UPLOAD.LOG is not found, SB/XA calls GLOBAL.LOG. The ORIG.REC contains the original HTML, and RECORD contains the new record. MAINFILE is the file that SB/XA writes to, and the key is contained in KEY.
SBXA-3334	**Multilanguage Text Copied along with Screen Definition** In versions 5.4.4 and later, multilanguage text was not copied when the user copied a screen definition. The text for other languages is stored in DMLANGUAGE.xx, where xx is the language code. An enhancement is implemented in version 6.0.4 to copy the text for other languages in DMLANGUAGE.xx.
SBXA-3376	**Support for Loading Action Bar Items on XUI Forms** If a function key set that has action bar items was loaded on a XUI form, the action bar items were loaded as function keys. In GUI mode, the action bar items are loaded across the top of the form as a menu. This same functionality has been implemented in XUI mode in version 6.0.4.
SBXA-3389	**Fix for Subvalue Marks in TU.FORM.OPENDOS** The TU.FORM.OPENDOS subroutine was not treating subvalue marks correctly, using a semicolon character (;) rather than a pipe (|) for the subvalue mark. Due to this problem, customers were unable to call a Windows-style Open DOS File dialog box from the XUI clients. The TU.FORM.OPENDOS code has been amended to use the | character for subvalue marks in version 6.0.4, and the Open DOS File dialog box is displayed in XUI mode as expected.

Issue Number	Description
SBXA-3401	**Pointer to DMCRITERIA Added for SB-Enabled Accounts** When running SAPROGS FIX.SBPLUS.POINTERS or when setting up a new account as an SB-enabled account, the pointer to DMCRITERIA was not added to the VOC file. This issue has been corrected in version 6.0.4.
SBXA-3406	**Fix to Display All MV Data in Output Screens with G-Option Grid** In output screens with a G-option grid containing a multivalue derived field that uses square brackets [], only the first line of multivalued data was displayed. A code fix resolves this problem in version 6.0.4, and all multivalued data is displayed properly.
SBXA-3410	**Audit Record Generated on Copying User or Group Record** In SB/XA 6.0.x, the security API failed to create an audit record when a user or group record was created by copying it from the Security menu's user or group copy function. This defect has been corrected in version 6.0.4 so an audit record is created as expected.
SBXA-3417	**Data Sorted Correctly with "MR2," Conversion Code** If a selection process (/PD.S) contained dictionary item with a conversion code of "MR2," the data did not sort correctly in a grid. A fix resolves this issue in version 6.0.4, and the data is sorted in numeric order as designed.
SBXA-3423	**Correction of Autologin Issue** An issue with the autologin feature has been fixed.
SBXA-3439	**Performance Improved for /REGEN.EXP in Quiet Mode** Running the regenerate expressions process (/REGEN.EXP) in quiet mode was slow because the log file was written to a hashed file. To increase performance, the log is written to a directory file in version 6.0.4, increasing performance of /REGEN.EXP in quiet mode.
SBXA-3441	**XUI Clients Refresh Data Correctly with @REFRESH = 7** Using @REFRESH = 7 to refresh a grid did not refresh data as expected in the XUI clients, leaving fields blank. The code has been amended so @REFRESH = 7 refreshes data in grids in XUI mode, the same as in GUI mode.
SBXA-3448	**File Upload Issue Resolved** In version 6.0.3, using the XUI clients to upload a file to the server intermittently resulted in client failure. This has been fixed.
SBXA-3454	**Moved Screens No Longer Minimized in Aero Theme** In previous versions, moving screens caused them to minimize in Vista/Windows 7 when the Aero theme was selected. This issue was related to SBXA-1149, and multiple fixes for the problem that caused menus to wrap and buttons to be cut off corrected the minimizing behavior as well.
SBXA-3465	**Copy Group Function Fixed to Copy $ Items** The Copy Group function (Admin > Security > Group Security Setup > F10-Action > Copy Group) did not copy relevant $ items in DMSECURITY. This issue has been resolved in version 6.0.4.
SBXA-3495	**SROC.LOG Pointer Created with Correct Value** In UniData editions, the pointer for SROC.LOG created by running FIX.SBPLUS.POINTERS was created with an F instead of DIR in attribute 1. This issue has been corrected in version 6.0.4, and attribute 1 is created with a value of DIR, as designed.

Issue Number	Description
SBXA-3496	**Autologin Flag Added to SB+ Control Parameters** As an enhancement in version 6.0.4, the Autologin flag has been added to SB + Control Parameters (/SB.PARMS), which allows you to enable the autologin feature at the SB instance level.
SBXA-3498	**SB.DISP Displays Message for Invalid Type** If the user passed an alpha TYPE to SB.DISP, the variable TYPE was set to zero and SB/XA did not display a message to inform the user that an invalid type was passed. In version 6.0.4, a DISP 3 message is displayed if a nonnumeric TYPE is passed to SB.DISP, or if the TYPE is greater than 49.
SBXA-3499	**Adding Buttons to XPS Viewer Toolbar** Adding a button to the XPS Viewer toolbar to call an SB process overrode the BaseSBXPSViewerStyle, and the button produced various errors. These issues have been resolved so buttons added to the toolbar do not override the base style and work properly in version 6.0.4.
SBXA-3512	**Port Number Is Provided for Locked Records** In versions 5.4.1 and later, the "Record locked" error message did not include the port number, and customers were unable to use the unlocking feature without this information. The port number is displayed in this error message once again in version 6.0.4.
SBXA-3516	**Paper Size Options for PDF Output** In the Process Defn - Report /PD.R > F6-PDF Parameters screen, the Paper Size options on the Direct to PDF tabbed page were listed vertically rather than horizontally, causing display issues in subsequent fields on this page. This has been fixed in version 6.0.4.
SBXA-3517	**Correction of Display Issues when Deleting Last Subvalue** In GUI mode, if you deleted the last subvalue in multivalued data using the Delete key rather than a backslash (\), display issues occurred if process slots were used. The code has been amended in version 6.0.4 so the last subvalue can be deleted via the Delete key without causing unexpected results.
SBXA-3523	**Correction of /RELEASE.LICENSE to Parse Output of LISTUSER in UniData for UNIX Edition** The SB /RELEASE.LICENSE process relies on the database command LISTUSER to determine who is logged on to UniData. The output from LISTUSER contains the user's IP address for Windows, but not for UNIX. The /RELEASE.LICENSE process in the UniData for UNIX edition has been changed to parse the output from LISTUSER correctly on UNIX, so the process now works as designed.
SBXA-3524	**Correction to FIX.SBPLUS.POINTERS Prevents Corruption** Under a specific set of conditions, FIX.SBPLUS.POINTERS corrupted application data pointers. This issue has been resolved in version 6.0.4.
SBXA-3526	**/REGEN.EXP Provides Option to Regenerate Only Data Files** In version 6.0.4, an enhancement to the regenerate expressions process (/ REGEN.EXP) allows you to regenerate only data files and not the xxDEFN and xxPROCESS files.
SBXA-3528	**TUBP Routines Run without FRW Error** In the UniData UNIX edition, the error message "FRW not a verb" sometimes occurred when using TUBP routines. This issue has been fixed in version 6.0.4, and TUBP routines now run without triggering this error.

Issue Number	Description
SBXA-3529	**File Create Process Returns Error**
	In previous versions, the File Create process became unresponsive if the user attempted to create a file with the same name as an existing file in the opposite case (upper or lowercase). With no other way to end the process, the user had to close the client session and then restart it. Code has been added in version 6.0.4 to issue an error message in this error condition, and the File Create process no longer renders the client session unresponsive.
SBXA-3533	**De-emphasized Fields Retain De-emphasis Properties on Primary Screen**
	In XUI mode, customers experienced a problem with de-emphasized fields on a primary screen that had tabbed subscreens. If a paragraph process (/PD.P) de-emphasized a field on the primary screen, the field was initially displayed as de-emphasized. However, when the user clicked on a tabbed subscreen and returned to the primary screen, the de-emphasized field was enabled for input. With a fix in version 6.0.4, de-emphasized fields on the primary screen retain de-emphasis properties after the user goes to a tabbed subscreen and returns to the primary screen.
SBXA-3544	**Porting Codes Made Available to Prevent /SMART.QUERY Error**
	Due to missing porting codes in version 6.0.3, running /SMART.QUERY in the UniData Windows edition resulted in a blue screen with error messages. The porting codes are present in version 6.0.4, preventing this error condition.
SBXA-3545	**Change to Theme Loading After Changing System ID**
	Multiple applications (system IDs) in the same account may use the same XAML theme. Changing to a different system ID caused the theme to reload, even though both system IDs used the same theme. The code has been amended so that when switching to a different system ID, the theme is loaded only if it is different from the theme used by the previous system ID.
SBXA-3548	**User-Defined Delimiter for Remote Processes**
	A problem was found using an attribute mark as delimiter when passing parameters to a remote process on the Universe UNIX edition for DataVu. The attribute mark was being converted to CHAR(221). A new field named "SBREMOTE Delimiter" has been added to SB+ Control Parameters (/SB.PARMS), allowing users to define a character to be used as a delimiter in remote processes.
SBXA-3558	**Fix for Issue with Pressing Enter when Button Is Not in Focus**
	When a dialog box displayed an error/warning message, if the user tabbed through fields in the dialog box and pressed Enter when focus was not on a button, the application became unresponsive. This issue has been resolved in version 6.0.4.
SBXA-3562	**Dialog Box with Bitmap Displays without Error**
	In version 6.0.3, if a dialog box contained a bitmap, SB/XA issued the error message, "Invalid Socket Handle" when run in GUI mode. A fix prevents this error in version 6.0.4.
SBXA-3563	**Up and Down Arrow Keys Fixed in XUI Mode**
	In some cases, the up and down arrow keys did not move the cursor from one field to another in the XUI clients in version 6.0.3. The code has been revised to address this issue in version 6.0.4.

Issue Number	Description
SBXA-3567	**File Transfer Process Improved** Under certain conditions, the client failed during the SB/XA file transfer upload operation in versions 6.0.0 and later. The SbFtTrans process has been changed from a one-way function to a two-way function to prevent this problem in version 6.0.4.
SBXA-3571	**XUI Clients Successfully Load Images in Cars Form** In SBDEMO, if the images for the I*CARS*S1 form do not exist on the client machine, the files are downloaded from the SB/XA Application Server machine. During the process of loading images for this form, SB/XA Rich Client and SB/XA Browser Client failed. A code fix prevents this problem in version 6.0.4.
SBXA-3585	**Pointer Error Prevented in Upgrade** On upgrading the UniData Windows edition, SB/XA issued the error message, "Unable to open Pointer to Old Sauser." The upgrade program has been fixed to set up a file pointer as a DIR type rather than an F type, preventing this error in upgrades to version 6.0.4.
SBXA-3641	**Supporting Files for ClickOnce Deployment** At version 6.0.4, the release directories are shipped in the \Extra\Rich Client folder on the product CD. Customers can copy the application and deployment manifest files from this folder to build their own ClickOnce deployment of the SB/XA Rich Client component to client machines.
SBXA-3669	**Changes to Calendar Control in XUI Clients** The calendar control did not display dates properly when switching from one month to the next in XUI mode. The calendar display area has been adjusted to accommodate up to six rows of dates per month, resolving this issue in version 6.0.4.
SBXA-3696	**Fix to Prevent Failure of XUI Clients in /PD.S** Pressing Enter through multiple prompts in a selection process (/PD.S) caused the XUI clients to fail. A code fix corrects this problem in version 6.0.4.

SB/XA v6.0.3 release notes

Build 2304
Release Date: June 2010
These release notes provide information about enhancements and fixes in SB/XA v6.0.3.

What's new in SB/XA v6.0.3

Correction of display issue in derived and non-input fields
A problem with the display of values in derived and non-input fields in the XUI clients affected functionality of SB/XA 6.0.2, and a product quality alert was issued. This issue has been corrected in Version 6.0.3. 12977*AUS, 12978*AUS

Updated/rebranded documentation set
The SystemBuilder documentation set has been updated to reflect changes in the product, and the rebranding of path names and namespaces is now complete.

Enhancements and fixes in SB/XA v6.0.3

The following issues were addressed in this release:

Issue Number	Description
6453*UK	**Correction to cpio Commands for Linux in Getting Started Guide** The cpio commands for Linux have been corrected in Chapter 4, "Installing SB/XA Application Server on UNIX," in *SB/XA Getting Started*.
9325*USA	**Create/Update Account Screen Shots Replaced** The screen shots of the Create An Account screen showed an option that was removed in a previous version, and have been replaced in Chapter 1, "Getting Started," and Chapter 4, "Admin Menu," in *Administering SB/XA*. In addition, the screen shot of the Update An Account screen was replaced. It now shows the F7-Themes option, and instructions for the Themes screen have been added in Chapter 4, "Admin Menu," in Administering SB/XA.
12171*AUS	**Single Sign-On Credentials Are Case-Sensitive** The instructions for the Single Sign-on screen in Chapter 6, "Setting Up Application Connections and Configuring Clients," in *SB/XA Getting Started* now state that the user's Windows identity credentials are case-sensitive.
12807*USA	**Notation Removed for Single Sign-On in Cross-Domain Environment** Chapter 6, "Setting Up Application Connections and Configuring Clients," in *SB/XA Getting Started* listed cross-domain logons as a reason not to use single sign-on. Our tests demonstrate that single sign-on can be configured for cross-domain logons, so that statement has been removed from the list.
12810*USA	**New Fields in SB+ Control Parameters Documented** The screen shot of SB+ Control Parameters (/SB.PARMS) has been replaced, and three fields recently added to this screen (Database Code Page, OEM or ANSI, and Character for XPS Tags) are documented in Chapter 4, "Admin Menu," in *Administering SB/XA*.
12977*AUS, 12978*AUS	**Fix to Display Values in Derived and Non-Input Fields in XUI Clients** In version 6.0.2, the first time a record was displayed in the XUI clients, values were populated in derived and non-input fields as expected. After escaping from the record and displaying it again, values were not populated in these fields. As a related issue, values in derived and non-input fields on tabbed screens were displayed the first time the tab was opened, but were empty after clicking another tab and then returning to the same tab in the XUI clients. The code has been amended to resolve these issues with the display of derived and non-input fields in version 6.0.3.
12985*AUS	**GUI Form Painter F3 Font Strings Produced Errors in Character Mode** Using F3 to build font strings in the GUI Form Painter generated strings that were not compatible with character mode, and resulted in errors on saving the form. The validation routine for character forms has been changed so that if font strings do not pass validation, the font strings are stripped out and no error occurs.
40776*USA	**Path Names Updated in Documentation** The default installation path was changed from C:\IBM to C:\U2, and "IBM" was removed from other path names in the product in version 6.0.2. Accordingly, the path names have been changed in text and in screen shots throughout the version 6.0.3 SystemBuilder documentation set. Note that the *Getting Started* guides still contain instructions for removing older versions of the product in their C:\IBM locations.

Issue Number	Description
40960*USA	**Updates to Documentation on Specifying Default Styles** Screens for specifying the default XAML style at the system level (/HK.CONTROL), at the account level (/UPDATE.ACCOUNTS), and at the instance level (/SB.PARMS) were added or updated in version 6.0.2. Documentation on system-level, account-level, and instance-level styles has been added or updated in Chapter 4, "Admin Menu," in *Administering SB/XA*, and in Chapter 5, "Other Utilities," and Chapter 9, "XAML Styles and Themes," in the *SB/XA Application Server Reference*.
40961*USA	**Function Key/Button Screen Updated in Reference Manual** A XAML Style Name field was added to the GUI Form Painter (/SD) Function Key/Button Screen, allowing you to specify a style for a specific button. The screen shot has been replaced and the new field has been documented in Chapter 7, "Graphical User Interface," in the *SB/XA Application Server Reference*.
41011*USA, 41117*USA	**Namespace Changed in Documentation** The namespace in XAML style definitions was changed from "IBM.SBPlus" to "SBXA.SBPlus" in version 6.0.2. The SystemBuilder documentation set has been updated to show the new namespace in XAML style definitions.
41186*USA	**Updates to Screen Parameters Documentation** An option for specifying XUI parameters was added to the GUI Form Painter (/SD) > F6-Screen Parameters screen. The screen shot has been replaced to show the new F7-XUI Params option, and documentation for Screen XAML Parameters has been added in Chapter 3, "Main Tools," in the *SB/XA Application Server Reference*.
41443*USA	**Step for Setting Up Theme for an Account Is Noted as Optional** The step for setting up the available themes and default theme for an account has been noted as optional in Chapter 6, "Setting Up Application Connections and Configuring Clients," in *SB/XA Getting Started*. The step for verifying and entering the user's Windows identity in the Single Sign-on screen has been updated to cover both standard and cross-domain logons in Windows XP, Windows 7, and Windows Vista environments. Look for these changes are in Chapter 6, "Setting Up Application Connections and Configuring Clients," in *SB/XA Getting Started*.

SB/XA v6.0.2 release notes

Build 2230
Release Date: May 2010
These release notes provide information about new features, enhancements, and fixes in SB/XA v6.0.2.

What's new in SB/XA v6.0.2

Recompiling/recataloging programs after 5.x to 6.x upgrade
When upgrading from SB version 5.x to SB/XA version 6.x, it is necessary to recompile and recatalog all UniBasic or UniVerse BASIC programs and run /REGEN.EXP to regenerate expressions on all accounts. For detailed information, please see the following tech note:
https://u2tc.rocketsoftware.com/documentation/PDF/1410003.pdf
12820*USA

Disabling third-party revision tracking tools during upgrades
If you are using a third-party revision tracking tool (such as PRC from SJ+ Systems Assoc., Inc.) that integrates into SB/XA, the tool must be turned off/disabled in accounts that you intend to upgrade.

Please contact your revision tracking software vendor for instructions on how to disable/uninstall the revision tracking tool before an account upgrade, and then enable/reinstall the tool after the account upgrade. Note that you may have to upgrade the third-party product for SB/XA; to avoid installation and upgrade failures, please consult your vendor before proceeding. 12821*USA

Support for VBScript in XUI clients
SB/XA Browser Client and SB/XA Rich Client have been enhanced to support VBScript functionality in version 6.0.2. The SBDEMO XAML Examples (XA) application now contains a VBScript example that demonstrates how a graph program written in VBScript is displayed by Microsoft Excel. SB/XA supports all the same functionality of the TUBP library that is available in SBClient except for TU.SCRIPT.ADDOBJECT. 41008*USA, 41180*USA

Namespace changes in XAML style definitions
In version 6.0.2, "IBM.SBPlus" has been changed to "sbxa" in the namespace in default XAML styles. To see the new namespace definitions in the default XAML styles, open the DefaultStyles.xaml file in the \SBDEMO\XATHEMES folder in the SB/XA installation directory. The default directory is C:\U2\SBXA \ApplicationServer\UniData\SBDEMO\XATHEMES or C:\U2\SBXA\ApplicationServer\UniVerse\SBDEMO \XATHEMES. You can use the screen editor process to view the XAML code in this file by entering the following: /SE XATHEMES DefaultStyles.xaml.
If you wrote a custom XAML theme, you will need to update the namespace definitions in the same way, substituting "sbxa" for all occurrences of "IBM.SBPlus". Any references to "http:// schemas.IBM.SBPLUS.com/WPFControls" should be changed to "http://schemas.sbxa.com/ WPFControls".
All occurrences of "xmlns:sbc", "xmlns:sbp", "xmlns:sbs", and "xmlns:sbs" should be changed to "xmlns:sbc". For example:
xmlns:sbc="http://schemas.sbxa.com/WPFControls"
41011*USA, 41117*USA

MAPI support for email messaging in XUI clients
The same electronic mail functionality available in SBClient is now supported in SB/XA Browser Client and SB/XA Rich Client. All clients use Microsoft's Messaging Application Program Interface (MAPI). MAPI allows client programs to become email messaging aware; it interfaces SB messaging- based services to Microsoft Outlook. 41014*USA

Remove prior versions of SB/XA Presentation Components
The installation program for SB/XA Presentation Components does not work properly to upgrade previous versions of SB/XA Browser Client or SB/XA Rich Client to version 6.0.2. You must uninstall the old versions of these components from Control Panel > Add or Remove Programs before installing the SB/XA Presentation Components from the SB/XA 6.0.2 product CD. You should back up or move the SB and SB.DEFN accounts to SB.OLD and SB.DEFN.OLD before running the uninstall process if you intend to preserve security records, printer definitions, and other settings. 41539*USA

Enhancements and fixes in SB/XA v6.0.2

The following issues were addressed in this release:

Issue Number	Description
5957*USA	**Escaping from Print Manager No Longer Places Data in @ORIG.REC** In versions 5.2.4 and later in character mode only, if the user entered /P to print the screen and pressed Esc or F4 to escape from the Print Manager, the printer data was placed incorrectly in @ORIG.REC. Version 6.0.2 implements a fix so the variable contains the stored printer data as expected.
6671*USA	**New Combo Box Slot in /FD** An optional slot to preload combo box options has been added in the Field Definitions (/FD) screen. -

Issue Number	Description
7300*USA	**Fix for Index Error in Date Field** In versions 5.3.3 and later for UniData only, if the user entered a character such as "+", "-", or "." in a date field and pressed F3 for help, the error message "index 1:1,index 2:7 to two dimensional matrix is out of range" was displayed. The client failed, and the cursor was returned to the ECL prompt. This issue has been resolved in version 6.0.2, so pressing F3 in a date field containing a character no longer produces the index out of range error or causes the client to fail.
7568*USA	**New Process Logs Changes to First-Level Help** Version 6.0.2 implements a new process to record changes to first- level help (OH1). Changes to the RECORD, KEY, and MAINFILE are supplied to the FD.LOG process. Note that changes to second- and third-level help are made in the Screen Editor (/SE process) and are written to the editor log file. For further information on the editor log, see issue 12427*USA.
8866*USA	**Improved Help for /SEC.USER.SETUP Password Field** Second-level help on the password field in /SEC.USER.SETUP has been revised to clarify differences in the behavior of the SB password depending on how you set it up. If the password is set up in uppercase, entry in uppercase or lowercase is accepted. If you set up the password in lowercase or mixed case, the password is case-sensitive and must be entered exactly as it was set up.
9071*USA	**Correction of Cursor Behavior in /PD.I Option F** In GUI tabbed screens, /PD.I option F incorrectly advanced the cursor to the first field on the next screen, instead of placing the cursor in the first input field of the current screen after the key field. The first screen starts with the key field, and pressing Return on the key field caused the record to be read again, removing any changes to data that had been changed. This issue has been resolved in version 6.0.1 so option F returns the cursor to the first field of the current screen, as designed.
9076*USA	**/PD.I Option F Now Supported in Character Mode** /PD.I option F functionality was previously not implemented in character mode linked screens. An enhancement in version 6.0.2 enables option F to work the same in character mode as in GUI mode, placing the cursor in the first field of the current linked screen.
9466*UK	**Fix Allows Auto Logon as Different User** In the UNIX version with Autologin set to 1 (On), if the user logged on to UNIX as one user and then auto logged on to SB as a different user, an autologin error occurred and repeated in a loop, requiring the user to end the session. A code fix in version 6.0.2 prevents this error.
9494*USA	**Option to Disable Error Message Box when No Items Returned for HTML Report** SB.CONTROL record <30,13> has been added in DMCONT. This parameter provides the ability to disable the "No Items Present" error message dialog box that appears when no items are returned for a Report Writer report that is output to HTML.
9541*USA	**Support for DISP 4 Calls from SB.REMOTE.PROCESS** The SB command DISP 4, which is called inside a paragraph process to display a message in a dialog box, has been enhanced so it can now be called from SB.REMOTE.PROCESS.

Issue Number	Description
9965*USA	**Use of XAML Styles to Create Menus Resembling Types 3 and 4**
	SB/XA Browser Client and SB/XA Rich Client support menu types 1, 2, and 5 natively. You can use XAML styling to create menus that are similar to menu types 3 and 4 in appearance and behavior for use in the XUI clients. We will publish a tech note on styling menu types 3 and 4 shortly after SB/XA 6.0.2 is released at https://u2tc.rocketsoftware.com > U2 Knowledge Base.
10465*USA	**Copy Text from Report Writer .TXT Record to Alternative Language Item**
	Text typed directly in a Report Writer report is stored in the .TXT record for the report definition within the dictionary of the file the report is run against. With this enhancement in version 6.0.2, the text stored in the report_name.TXT item can be copied to create an alternative language item, such as report_name.TXT.FR (or any other language code), and the alternative language item can then be edited.
10676*USA	**Help Coordinates Screen Displayed in XUI Mode**
	F1 More Help was implemented in SB/XA Browser Client and SB/XA Rich Client in version 6.0.1, but the screen to define Help coordinates was not displayed. This issue has been resolved in version 6.0.2.
10731*USA	**No Comment Generated for Empty Lines in HTML Output**
	If a Report Writer report contained a conditional field that produced skipped (empty) lines in HTML output, a "`<!--Skip-->`" comment was generated for each empty line, increasing the size of the HTML file. The code has been changed so that the comment is no longer generated for empty lines in HTML report output.
10758*USA	**Correction for Applying Custom Style to Button**
	In versions 6.0.0 and 6.0.1, a custom XAML style applied to a button on a form in the GUI Form Painter did not override the system default button style. This issue has been fixed in version 6.0.2 so the custom XAML style is applied to the button, as expected.
10769*USA	**Display of Admin Menu in New Accounts**
	The Admin menu was missing in newly created accounts in version 6.0.1. A fix corrects this problem in version 6.0.2.
11006*USA	**Selection Process with Option H Displays Results Correctly**
	If a selection process used option H to hide the key field from display, the selection results did not display correctly in GUI mode. This has been fixed in version 6.0.2.
11008*USA	**Fix Prevents Failure of Paragraph Process That Changes @CNT**
	In versions 5.3.8 and later, if a paragraph process changed the value of @CNT (allowing you to go to a different line in a controlling multivalue field), the process failed in some cases, depending on how it was executed. If the paragraph process was executed from a function key slot or as a slash command from any prompt, it worked correctly. If executed from an action bar slot, the process failed. This issue has been resolved so a paragraph process that changes the value of @CNT works correctly when executed by any of these means.
11010*USA	**Fix for Report Writer PDF Process Error**
	When the user was preparing to output a report and pressed F3 for help at the "Output to Screen/Printer/Aux..." prompt, the error "2]PDF PROCESS NOT FOUND" was displayed. Version 6.0.2 implements a code fix to prevent this error.

Issue Number	Description
11175*USA	**Support for Styling Buttons Not Associated with Function Key** When a button was added to a form using the GUI /SD (Screen Designer) tool and the button was not associated with a function key, it was not possible to apply a style to the button in versions 6.0.0 and 6.0.1. A new field has been added to the button definition screen within the Screen Designer, allowing you to specify a XAML style for the button.
11190*USA	**Leading Zeros Shown in Combo Box Display** Combo boxes displayed the wrong description for numeric values. Leading zeros were stripped from the numeric value, so "02" and "002" were displayed as "2". With a correction to the code in version 6.0.2, the leading zeros are displayed as expected.
11254*USA	**Unknown Exception Prevented in Default Date/Money Conversion** In versions 6.0.0 and 6.0.1, on the SB+ Control Parameters > F5 System Defaults screen, F3 help on the Default Date Conversion or Default Money Conversion field displayed an unknown exception error. A code fix prevents this problem in version 6.0.2.
11279*USA	**Macro Lead-in Character Works in All Accounts** When the user defined a macro lead-in character in User Security Setup (/ SEC.USER.SETUP) when logged on to an account, the macro lead-in character worked only in that account, and not after logging to another account. This issue has been resolved in version 6.0.2 so the macro lead-in character is recognized in all of the user's accounts.
11320*USA	**DS Type Dictionary Item Removed to Support UniData ESEARCH** In versions prior to 6.0.2, all DM files in the SB account have a DS type dictionary item with the same name as the associated file. The DS items have a location number of 30000 or higher, which caused the UniData ESEARCH tool to fail. To resolve this problem, the DS type dictionary item has been removed from the following files in version 6.0.2 for UniData: DMSYSDEFN, DMSECURITY, DMACCOUNTS, DMPROCESS, DMHELPTEXT, DMRUNTIME, DMCONTACTS, DMDIARY, DMSH, DMSTATFILE, and DMUSERLOG.
11488*USA	**Fix for Sorting MV Records in Selection Process Grids** In selection processes displayed in GUI mode, if the user sorted multivalue records in a grid, the return value was corrupted. This problem has been corrected in version 6.0.2.
11489*USA	**SB/XA Supports U2 Data Server Phrases** Version 6.0.2 implements support for U2 data server Phrases. This includes a new option to maintain Phrases in dictionary items, enhancements to ARD/QRD to support Phrases, and enhancements to selection processes to support Phrases.
11524*USA	**Support for HTML Output in XUI Clients** With this enhancement, version 6.0.2 provides the ability to output HTML reports in SB/XA Browser Client and SB/XA Rich Client. Images for an HTML report must be stored on the client machine.
11542*USA	**Group Summary Report Fixed to Display Correct Data in XUI Mode** In Security > Security Reports, the Group Summary Report displayed different data in XUI mode than in GUI and character mode. The code for this report has been amended so it displays the same data in all modes.

Issue Number	Description
11565*USA	**Login Times Accepts "T" for Today's Date** In Group Security > F3 Login Times > F7 Login Times, the date field did not accept entry of "T" to fill in today's date in a grid. An enhancement now supports the "T" entry in this date field, making the functionality the same as in other date fields throughout SB.
11642*USA	**Clicking when Splash Screen Is Displayed Causes Rich Client to Fail** Clicking on another application while the SB/XA splash screen is displayed in SB/XA Rich Client sometimes causes the client to fail. This problem is due to a known defect in the Microsoft .NET Framework 3.5 Service Pack 1. The workaround is for users to be aware of the problem and avoid clicking the mouse button while the splash screen is displayed.
11675*USA	**Screen Position/Size Remembered with 'Center GUI Screens' Off** If you repositioned or resized a screen in XUI mode and the USER.FLAGS > F6 GUI Prefs > Center GUI Screens option was turned off, SB/XA Browser Client and SB/XA Rich Client did not remember the new position or size of the screen the next time you opened it. This has been fixed in version 6.0.2 so that if the Center GUI Screens option is turned off, the position and size of the screen are remembered. Note that if the Center GUI Screens option is turned on, the last position of the screen is not remembered.
11832*USA	**TU.TO.EXCEL Works with Non-English Versions of Microsoft Excel** In previous versions, TU.TO.EXCEL did not function with non- English versions of Microsoft Excel. Support has been added in version 6.0.2 for SBClient only as follows: If you use more than one language version of Excel, you can create a version of EXCEL.MACRO for each language (such as EXCEL.MACRO.FR or EXCEL.MACRO.SP) and store it in TUDEFN. TU.TO.EXCEL will then select the required version of the EXCEL.MACRO. Note that SB/XA Browser Client and SB/XA Rich Client do not yet provide support for Microsoft Office products.
11849*USA	**TU.IMAGE Successfully Displays Image from Action Bar** Calling TU.IMAGE to display an image from an action bar resulted in a .NET error, "Calling the Value property when there are more than 1 values in SbString is invalid." This issue has been resolved in version 6.0.2 to successfully display an image from an action bar.
11861*AUS	**Issue with Calls to SB.DISP.BOXTEXT Resolved** In version 6.0.1 and earlier, subroutine calls to SB.DISP.BOXTEXT produced the error, "Index and length must refer to a location within the string. Parameter name: length." A flaw in the code has been fixed to prevent this error. Note that the first two parameters of SB.DISP.BOXTEXT are item ID and file handle. If the item ID is one word, a file handle is required.
11922*USA	**Copies of GUI Screen Stack Correctly** In previous versions, when running the same process repeatedly to call a GUI screen, copies of the screen did not stack correctly if the Self-contained Forms parameter was disabled in /HK.CONTROL. This issue has been resolved so that screens stack correctly regardless of whether the Self-contained Forms parameter is enabled or disabled in /HK.CONTROL.
11967*USA	**Restriction on Position of Data in MV Fields with Side Prompt in GUI** In multivalued fields in a grid, if the display prompt is set to S (Side) and you move the data area below the field label, the label is not displayed in GUI mode. This is the expected behavior, due to way in which dimensions are set on rows and labels in the GUI layout.

Issue Number	Description
11980*USA	**VOC Pointer for DMRESOURCES Created in Upgrades** In versions 6.0.0 and 6.0.1, the VOC pointer for DMRESOURCES was missing in accounts that were upgraded from version 5.x or earlier. This issue has been fixed so that accounts upgraded to version 6.0.2 contain the VOC pointer for DMRESOURCES.
12023*USA	**Correction of Misspelling on Multiple Screens** The word 'Separator' was misspelled as 'Seperator' in the XUI Display Defaults screen, /HK.CONTROL, and /SB.PARMS. This has been corrected in version 6.0.2.
12037*USA	**F2 and F4 Corrected to Work as Designed in Output Screens** When creating a screen, the F2 (Save) and F4 (Del) buttons are included by default. These buttons did not work in output screens from the /PD.O process, and if the buttons were removed and replaced by other buttons, the new buttons did not display correctly or work as intended. In version 6.0.2, the F2 button is replaced with an OK button, the F4 button is grayed out (unavailable), and any other buttons added to output screens work correctly.
12043*USA	**Fix for Navigation Issues in Output Screens with a Grid** The Page Up/Page Down keys and Prev/Next buttons on /PD.O output screens were handled differently in XUI clients than they were in GUI mode in SBClient. In version 6.0.2, the behavior in XUI mode is consistent with that of GUI mode in SBClient, as follows: Page Up/Page Down keys do not work in output screens in any mode because it is not possible to place focus on the field. Prev/Next buttons are displayed in output screens in GUI mode only if the G option is enabled. XUI mode always uses a grid and works the same as grids in GUI mode: Prev and Next buttons are not displayed on output screens that use a grid.
12045*USA	**Data Reloaded Properly After Using Scroll Bar in Output Screen** When you used the scroll bar in a /PD.O output screen in GUI mode, the data was not reloaded correctly in version 6.0.1. This issue has been corrected in version 6.0.2.
12046*AUS	**Toolbar Images Downloaded Only at Logon** In version 6.0.1, toolbar images were downloaded each time the user logged on. This occurred when a toolbar, such as WINTB, was set to load from a menu definition, such as SBMENU. This issue has been fixed in version 6.0.2 so toolbar images are downloaded only the first time the user logs on.
12055*USA	**Flag for Displaying 'Call SB Process' Button** In version 6.0.1, the Call SB Process button was displayed in XPS reports when the 'Inhibit /Process calls' option was enabled. To address this issue, the flag named SBUserStatus has been added in /SEC.USER.SETUP. If the flag is set to D (Developer), the Call SB Process button is enabled; otherwise, the button is disabled.
12069*AUS	**SB.DISP String with '<' or '>' No Longer Results in Error** In version 6.0.1, using SB.DISP to display a string that contained the '<' or '>' character produced an error. A code fix corrects this problem in version 6.0.2 so strings containing the '<' or '>' character can be displayed without error.
12080*AUS	**SETATTR Sets Background Color of Grid Column without XUI Error** If you used SETATTR to set the background color of a grid column in a form, the form caused SB/XA Browser Client and SB/XA Rich Client to fail. A code fix prevents this problem in the XUI clients in version 6.0.2.

Issue Number	Description
12081*AUS	**DISP 9 Messages Display Properly** In version 6.0.1, DISP 9 messages sent to the status bar were obscured by SB/XA messages displayed on the same line. In version 6.0.2, DISP 9 internal messages are no longer sent to the status bar, so SB/XA messages are displayed on the status bar with no interference.
12094*AUS	**Correction to Spelling Checker Style** The spelling checker SBFieldWithSpellCheckStyle did not work in multivalued fields in version 6.0.1. A code fix enables spell check display when the field is in edit mode in version 6.0.2.
12119*USA	**PRINT.BMP Bitmap Included in DMRESOURCES** The bitmap PRINT.BMP used by the WINTB toolbar was missing from DMRESOURCES in version 6.0.1. This bitmap has been added to DMRESOURCES in version 6.0.2.
12122*UK	**DOS File Transfer No Longer Inserts Blank Lines** When passing data to a Windows application via DOS file transfer in versions 5.4.2 and later, blank lines were inserted in the resulting file. A code fix resolves this problem in version 6.0.2.
12151*USA	**Updates to Style Tag Templates** The Style_Tag_Templates_GA2.txt item in the XATHEMES file has been updated with information on styling the SBForm object.
12169*USA	**Fix to Display of Multivalued Fields in Input and Output Screens** When a Char screen was converted to GUI, data in multivalued fields on the right side of the form was not displayed correctly in the XUI clients. On input screens, data in multivalued fields on the right side of the form was truncated. On output screens, data in multivalued fields on the right side of the form was displayed below the buttons. This issue has been resolved in version 6.0.2 so the data in multivalued fields displays correctly in XUI mode.
12170*AUS	**Cleanup of 3D Grid Example** Various issues with the 3D grid example in the XAML Examples (XA) application of the SBDEMO account have been cleaned up in version 6.0.2.
12180*USA	**Display of Connect to Application Dialog Box Suppressed** If the user had set up only one application, the Connect to Application dialog box was presented during single sign-on in the XUI clients, requiring the user to select the application from a drop-down list. In this same situation in version 6.0.2, single sign-on connects to the application without displaying the Connect to Application dialog box.
12198*USA	**Scroll Bars Added in SB/XA Browser Client Window** Forms were truncated in SB/XA Browser Client if the screen resolution was small (for example, 800 by 600 pixels). In version 6.0.2, vertical and horizontal scroll bars have been added if the form is not completely visible in the browser window.
12233*USA	**Fix to Center GUI Screens** If the /USER.FLAGS > F6 GUI Prefs > Center GUI Screens option was turned off, screens appeared outside the border of the client window in the XUI clients. Fixes to correct a resizing problem and an issue with the screen window not being positioned relative to the main window resolve this issue in version 6.0.2.

Issue Number	Description
12249*USA	**Enhancement Provides Ability to Style Scroll Bars**
	Version 6.0.1 did not provide the ability to style a scroll bar. Version 6.0.2 supports this functionality, allowing you apply a XAML style to a scroll bar. For information on styling scroll bars in SB/XA, please see tech note SBXA-15 at https://u2tc.rocketsoftware.com > U2 Knowledge Base.
12254*USA	**Correction of Heading Line Wrap**
	In some cases, the heading line wrapped incorrectly in interleaved multivalue grids displayed in the XUI clients in version 6.0.1. This issue has been corrected in version 6.0.2.
12266*USA	**Custom Theme Displays Graphic on Fields with Intuitive Help**
	When using a custom theme that was designed to display a graphic on fields with F3 help available, the graphic did not display on fields in an interleaved multivalue grid. A fix to set the HasIntuitiveHelp property correctly for grid fields resolves this issue in version 6.0.2.
12268*USA	**Screen Flashing Issue Resolved**
	In some cases when users pressed F3 to get help on a field, the screen flashed before the F3 help content was displayed. This problem has been addressed and no longer occurs in version 6.0.2.
12315*USA	**Background Stretches Along with MPX Menu**
	If the user stretched the MPX menu by dragging the black bar at the side of the menu, the white background did not stretch with the menu. A code change resolves this problem in 6.0.2 so the background now extends along with the MPX menu.
12354*USA	**Fix Prevents SB.GEN.DRIV.I from Overwriting Records**
	If the Multilanguage option was on and a driver record did not exist, records were overwritten in subroutine calls from SB.GEN.DRIV.I. This issue has been resolved in version 6.0.2.
12369*USA	**Secondary Function Keys Placed on Separate Line of Grid**
	In converting the column and row coordinates of a character screen to a XAML grid, the secondary function keys were placed on the same line as the primary function keys. The code has been fixed in version 6.0.2 so the secondary function keys are placed on a separate line.
12370*USA	**Field Validation in Form Metadata**
	With this enhancement, field validation information has been added to form metadata. Mandatory fields can be identified by interrogating the value of the Mandatory flag in the screen definition, so these fields can be displayed differently to indicate that data is required.
12371*USA	**Current Tab Repainted Properly**
	If the user pressed F3 to select data on a tabbed screen in the XUI clients, SB/XA first displayed tab 1 before repainting the current tab. A code change fixes this problem in version 6.0.2 so the current tab is repainted after pressing F3.

Issue Number	Description
12373*USA	**GUI Tabbed Screen Position Remembered with 'Center GUI Screens' Off** If you moved a GUI tabbed screen and the USER.FLAGS > F6 GUI Prefs > Center GUI Screens option was turned off, the form did not remember its new position the next time you opened it. This has been fixed in version 6.0.2 so if the Center GUI Screens option is off, the tabbed screen opens in its new position. Note that if the Center GUI Screens option is turned on, the last position of the tabbed screen is not remembered.

12384*USA	**SETATTR Supports New Syntax for G.DRAWABLE Attribute**
	
	In version 6.0.1, using SETATTR to set the G.DRAWABLE attribute did not work to hide a XUI grid column. SETATTR supports the following two syntaxes to hide a XUI grid column in version 6.0.2:
	
	`SETATTR("[fieldName]", G.DRAWABLE, VAL)`
	or
	`SETATTR("[fieldName]*label", G.DRAWABLE, VAL)`

12390*USA	**INVOKE.TEXT.ED Issues Resolved** Two problems arose in INVOKE.TEXT.ED in XUI mode in version 6.0.1: (1) All content in a field was highlighted when the field was in focus, so typing any value overwrote the existing data, and (2) The text box was not sized correctly if the screen was converted from character mode. These issues have been resolved in version 6.0.2 so the cursor is placed in the field in focus without highlighting the entire content and the text box is sized to the correct dimensions.
12397*USA	**Password Rollover Expression Field Moved in Login Times** The behavior of the Password Rollover Expression field in Group Security > F3 Login Times > F7 Login Times was confusing to users in versions 5.4.2 and later. When the user first opens the screen, the field is blank if a date setting was not saved previously. When the cursor is positioned in the field, if the value was null, SB displays a suggested default date expression. This behavior works as designed. However, the field has been moved from the first field on the screen to the last so it will be more apparent that the field is blank initially, and a default setting is displayed when the cursor advances into the field.
12401*USA	**Fix Enables Multiple Column Dividers in Grids** Version 6.0.1 did not provide the ability to insert more than one column divider in a grid. This issue has been fixed in version 6.0.2 so that multiple column dividers can be inserted in a grid.
12406*USA	**Metadata Populated on FieldDefinition** The properties HasIntuitiveHelp, IntuitiveHelp, MandatoryField, and Validation were not populated in grid fields in version 6.0.1. This metadata is populated correctly on FieldDefinition in grids in version 6.0.2.
12409*USA	**Application Name Combo Box Resized to Fit** In version 6.0.1, the Application Name combo box was too long to fit in the Connect to Application dialog box on Windows 7 and Windows Vista operating systems. This issue has been corrected in version 6.0.2.
12410*USA	**Intuitive Help Implemented in Screens Converted from Char to GUI** F1 intuitive help did not work in screens that were converted from character column and row layout to XUI. A fix has been implemented in version 6.0.2 so F1 help works correctly in the XUI screens.

Issue Number	Description
12413*USA	**Changing Theme in Grid Display No Longer Causes Client to Fail** Changing the theme when a grid was currently displayed on a form caused the client to fail. This issue has been resolved in version 6.0.2.
12415*USA	**SETATTR Changes Grid Background Properties Correctly** If you did not set the background properties with SETATTR on the first page of data in a grid, but did so on subsequent pages, SETATTR did not take effect on subsequent pages. In addition, the display properties of grid rows on which background properties had been set changed as the user scrolled through the grid. A code fix to SETATTR corrects these problems in version 6.0.2 so changes to background properties work correctly in grids.
12416*USA	**Correction of Issues with Type 1 Menus** Type 1 menus called from a screen did not close after selecting a menu option, and focus was not returned to the menu if the screen was closed. The Esc key did not close the menu, and the user had to close the application. These issues with type 1 menus have been fixed in version 6.0.2.
12418*USA	**MCU[I Conversion Issue Resolved** The MCU[I conversion did not work for input fields on tabbed screens displayed in XUI mode in version 6.0.1. A fix corrects this issue so the conversion works correctly in version 6.0.2.
12423*USA	**'Deselect Before Int. Help' Flag Fixed** In /USER.FLAGS > F6-GUI Prefs, if the user's preference on the Deselect Before Int. Help flag was set to Yes, existing data in fields was not unselected before invoking F3 intuitive help. This issue has been addressed so that with this flag set to Yes, the existing data in the field is unselected as expected before F3 help is displayed.
12427*USA	**New Process After Slots** The subroutine in the Process After Tool Read slot was not being called from the Screen Editor or the XAML editor tool in a customer's application in version 6.0.1. To address this issue, a Process After SE/XE Read slot has been added in the Additional System Parameters screen of the System Control Record (/HK.CONTROL > F5-Additional). This new process slot works like Process After Tool Read, but for the screen editor and XAML editor tools. A similar new process slot, Process After SE/XE Write, has also been added.
12452*USA	**Fix Enables Changing Password in GUI and XUI Clients** Entering Autologin and New Pwd Next Login settings in User Security Setup (/SEC.USER.SETUP) in SBClient and then logging on to SB/XA Browser Client or SB/XA Rich Client caused problems with changing the password in the XUI clients in certain cases. The code has been revised to enable changing the password in any client.
12455*USA	**Adjustments to Width of Column in XUI Mode** After using column and row layout to convert a character form to XUI, if a column heading in the character form was longer than the data in the column, the column heading did not display correctly in XUI mode. This problem has been corrected in version 6.0.2, so the width of a column is the longer of the heading or the data.

Issue Number	Description
12456*USA	**Combo Boxes Display Conversion** In XUI mode, combo boxes with a conversion were initially displayed as empty, rather than show the code concatenated with the description as in character and GUI modes. The code has been changed so the conversion in the combo box is displayed correctly in all modes.
12475*USA	**Issue with Output Screen Driver Corrected** With the Multilanguage option on, the @RECORD was corrupted the first time the screen was displayed. A fix to the _SB.GEN.DRIV.O corrects a problem with the output screen driver in version 6.0.2.
12489*AUS	**Speedbars Displayed after Loading New Theme** In version 6.0.1, a customized speedbar, such as a toolbar with the x and y start positions set to 0, was not displayed after a new theme was loaded. The code has been revised to resolve this issue in version 6.0.2, and customized speedbars are displayed as expected.
12492*USA	**INVOKE.TEXT.ED Fixed to Save Changes in MV Fields** If the user changed data in a multivalued field that calls the INVOKE.TEXT.ED process and then pressed F2 to save, all changes were saved except those in the multivalued field. The code has been fixed in version 6.0.2 to save changes in multivalued fields that use INVOKE.TEXT.ED along with all others.
12493*USA	**Multiple Combo Boxes Allowed in Grid** The presence of more than one combo box in a grid caused the client to fail in version 6.0.1. A fix for the related problem reported in 12519*USA also corrected this issue in version 6.0.2.
12495*USA	**Correction to Icons for Information and Error Messages** The icons for information and error messages were swapped in version 6.0.1. This issue has been corrected in version 6.0.2 so an "i" in a blue box is displayed for information messages and an "!" in a yellow triangle is displayed for error messages, as designed.
12519*USA	**Combo Box Supported in Grids in XUI Mode** In version 6.0.1, screens with a combo box in a grid caused the XUI clients to fail in version 6.0.1. This issue has been fixed.
12522*USA	**@RECORD Set Correctly on Running QRD Report with Input Screen Active** On UniVerse only, if you ran a QRD report while an input screen was active in character or XUI mode, the @RECORD value was set to '0' after the report finished running. A fix resolves this issue in version 6.0.2.
12540*USA	**Problem with Printer Selection Resolved** If the user has defined multiple printers, a printer selection dialog box prompts the user to select a printer when logging on to SB/XA. In GUI or XUI mode, if the user entered "*" or pressed F3 to display a list of printers, the printer selection dialog box closed and the Connect to Application dialog box was redisplayed. The only way to select a printer was to type the printer name and press Enter. This issue has been resolved in version 6.0.2 so the user can select a printer by any of these methods.

Issue Number	Description
12542*USA	**Screens with Grid Display Issues Are Now Generated from GUI Forms** In certain SBDEMO forms and other forms converted from character column and row layout to XUI, if a multivalued data set had a window size of 1, the grid did not display correctly in the XUI clients. In version 6.0.2, the Link Char and GUI Field Positions flag for these forms has been reset so the XUI screen is generated from the GUI form rather than the character form.
12544*USA	**Header Displays Correctly in Interleaved Grid** If an interleaved multivalue grid had a field that was not included on the first line of the grid, the size of the grid header was increased and covered up fields above the grid. The XAML code for grid display has been corrected in version 6.0.2 so the header displays normally.
12548*USA	**Fix to Prevent Error on MCU[I Conversion in Memo Field** If the MCU[I conversion was included in a memo field, SB/XA produced the following error if the user entered more than one line of data in the memo field: "SB.String.AddValuesFromByteArray trying to copy 5 bytes from an array 1 bytes long, starting at 0." The code has been amended to prevent this error in version 6.0.2.
12558*USA	**Record in OTHER(2) Cleared Before Secondary File Update** In the /PD.F (periodic file update) process, OTHER(2) contains the record to be written on a secondary file update. The file update process was not clearing OTHER(2) for a new record before updating the secondary file. A fix corrects this problem in version 6.0.2 so the record in OTHER(2) is cleared before the secondary file is updated.
12582*USA	**SB Common Variables Populated in @RECORD of /TH.C Log** When the /TH.C (Compile Theme) process is invoked, it calls the GLOBAL.LOG process or another defined log process for revision tracking. In version 6.0.1, the SB common variables were not visible when performing debugging in /TH.C. The code has been revised in version 6.0.2 so that when /TH.C is invoked and a log process has been defined, the parameters that have been passed to /TH.C are populated in @RECORD.
12584*USA	**F3 Intuitive Help on Process Names Implemented in GUI and XUI Modes** Using the /REGEN.GUI process in character mode, if you typed a partial name in the PROCESSES field and pressed F3 for intuitive help, all processes containing the specified string were listed. This same functionality was not supported in GUI or XUI mode in version 6.0.1. Two new methods have been implemented in version 6.0.2 to provide F3 intuitive help on process names in GUI and XUI modes.
12588*USA	**GLOBAL.LOG Requires Version Number in /HK.CONTROL** When running the /TH.C process in SB/XA Browser Client or SB/XA Rich Client, the GLOBAL.LOG process was executed even if the version number was not set in the System Control Record (/HK.CONTROL). A correction to the logic has been made, so GLOBAL.LOG is not executed if there is no version number in /HK.CONTROL.
12604*USA	**XAML Style on Button Saved in XUI Screen Definition** If you added XAML style on buttons in Screen Defn > F7-Function keys > F6-XUI and saved the screen definition, the XAML style entered for the button was not saved. This defect has been fixed in version 6.0.2.

Issue Number	Description
12608*USA	**Display Property Applied to All Objects Subject to SETATTR Call**
	When the emphasis property was set on multiple buttons with one call to SETATTR, emphasis was applied only on the last button when the form was displayed in the XUI clients. The code has been corrected in version 6.0.2 so the display property is applied to all objects subject to the SETATTR call.
12612*AUS	**Fix Prevents Nonnumeric and Array Index Errors in Linked Screens**
	In previous versions, linked screens with REFRESH set to -2 and a process defined in the Process Before Screen slot produced "Nonnumeric data when numeric required" and "Array index out of bounds" errors. A fix has been made to prevent occurrence of these errors in version 6.0.2.
12614*USA	**Field Widths Corrected for Selection Processes in XUI Clients**
	Selection process (/PD.S) window coordinates and field width parameters were not applied correctly in XUI mode. For example, a selection defined with columns of varying widths displayed correctly in GUI mode, with each column at its specified width. However, the same selection displayed with all columns of equal width in XUI mode. With a code fix in version 6.0.2, fields are displayed at their correct widths in XUI mode.
12615*USA	**/PD.S "by-exp" Option X Displays All Available Rows in XUI**
	In a selection process (/PD.S) that uses by-exp option X, the screen displayed all available rows in character and GUI modes, but only one row in XUI mode. Version 6.0.2 corrects this problem, and the screen now displays all available rows in XUI mode, as expected.
12624*USA	**Available Themes Saved in Account Update**
	If the user entered available themes in /UPDATE.ACCOUNT > F7-XUI and saved changes to the account, the specified theme names were not saved. A fix has been made to resolve this problem in version 6.0.2.
12626*AUS	**/REGEN.EXP Processes Expressions Defined in /PD.R > F5-HTML**
	In version 6.0.1, /REGEN.EXP did not process expressions that were defined in Report Process Definitions /PD.R > F5-HTML. With a code fix in version 6.0.2, /REGEN.EXP processes expressions defined in this manner as expected.
12629*USA	**Print Job Starts on Sending Report to Printer in XUI Clients**
	When attempting to print a report to the host printer in XUI mode, the report did not print until the user exited from SB/XA Browser Client or SB/XA Rich Client. This issue has been addressed in version 6.0.2 so the print job starts when the report is sent to the printer, rather than after closing the XUI client.
12634*USA	**Background Output Process Amended**
	In previous versions, if the user ran a Report Writer report with the output set to B (Background) and the Display Print Select option set to N, the output process was unresponsive and the user had to cancel the batch job from the command line. Changes to the background output process resolve this issue in version 6.0.2.
12638*USA	**Themes in DMSYSDEFN Tagged with Revision Control Information**
	When using /THEME.DEFN, theme records in DMSYSDEFN were not updated with revision control information in version 6.0.1. The code has been amended in version 6.0.2 to tag themes in DMSYSDEFN with revision control information.

Issue Number	Description
12645*USA	**Function Keys Displayed in Specified Orientation**
	In the XUI clients, function keys were always displayed horizontally across the bottom of screens even if the Function Key Placement option was set to Vertical. Revisions to the code correct this issue in version 6.0.2 so function keys are displayed in the orientation specified by the Function Key Placement setting.
12652*USA	**XUI Grids Provide Blank Row**
	Clicking in a grid creates a new empty row in GUI mode, but not in XUI mode. In version 6.0.2, the grid has been improved for the XUI clients so it always contains at least one blank row, and there is no need to click the mouse to create an empty row in XUI mode.
12653*USA	**Function Key Labels with Apostrophe Display Properly in XUI Mode**
	If you created a named function key set in /FKEY.DEFN with at least three functions and the XAML style for one of the function keys contained an apostrophe ('), the XAML code was displayed on the function key when viewing the form in SB/XA Browser Client or SB/XA Rich Client. The code has been fixed in version 6.0.2 to display function key labels correctly in XUI mode when the XAML style contains an apostrophe.
12667*USA	**Values Display in Combo Boxes with Conversion Code and Validation**
	Combo boxes did not display values if there was a conversion code as well as a validation on the field. This issue has been corrected in version 6.0.2 so values display in combo boxes under these conditions, as expected.
12678*UK	**Fix to Return Correct Values in Right-Justified /PD.S Grid Fields**
	In previous versions, right-justified grid fields in /PD.S forms returned incorrect values for some numbers in GUI mode. The grid internal type for the affected numbers has been changed from dttSingleFloat (132) to dttDoubleFloat (133) to resolve this problem in version 6.0.2.
12679*USA	**SETATTR on Fields in Interleaved Grids No Longer Triggers Error**
	If you used SETATTR to set the attributes on a field in an interleaved multivalue grid, the screen produced an error when it was displayed in the XUI clients. A fix prevents this error in version 6.0.2.
12708*USA	**XPS Viewer Fixed for UniData on UNIX Platform**
	When users sent reports to the XPS printer in the UniData edition on UNIX, the XPS Viewer did not appear. This problem has been resolved in version 6.0.2.
12717*USA	**Fix for Combo Box Causing Grid Failure in Converted Forms**
	In interleaved multivalue grids converted from a character mode form, selecting a value in a combo box and then pressing Tab or Enter to leave the field caused the grid to fail. A code fix has been implemented to correct this problem in version 6.0.2.
12742*USA	**Behavior of TU.CHECK.DIRECTORY Corrected in XUI Mode**
	TU.CHECK.DIRECTORY behaved differently in XUI mode than in GUI and character modes when the path ended in a backslash (\) character. The code has been amended in version 6.0.2 so that when the path ends with a "\", the paragraph returns 1 (directory does not exist) in all modes.

Issue Number	Description
12755*USA	**New Style for Interleaved Grid Not Converted from Character Form** The SBXCharacterInterleavedGridViewStyle checks the form's conversion flag and works only in interleaved multivalue grids that were converted from a character-based form. A new standard XAML style named SBXCharLayoutGridViewStyle is available in version 6.0.2. This style can be applied to the controlling multivalue field in a grid or in the System Control Record (/HK.CONTROL) in the CardView slot. With this style, the interleaved grid is laid out using the character layout methodology, regardless of whether the form's conversion code is set to C (character) or G (GUI).
12778*USA	**Changes Fix Navigation in Non-Grid Interleaved MV Sets** Navigation of non-grid interleaved multivalue sets in subscreens of input screens with an Output option did not work correctly in character or GUI mode in version 6.0.1. Users got unexpected results when navigating with the Down Arrow, Page Down, and Enter keys. Changes to the input screen drivers correct these navigation issues in version 6.0.2.
12808*USA	**Initial Value Displayed in SB Instance 'Default Fail Value' Field** In the SB Instance Setup screen (/SBINSTANCE.SETUP), a value is required in the Default Fail Value field, but the field was initially blank on opening the screen. It did not display a value until the cursor advanced to that field. The Default Fail Value is the decimal value for the ASCII character to store in the database for any unrecognized character entered. In version 6.0.2, the field initially displays the default decimal value of 63, for the ASCII character "?", on opening the SB Instance Setup screen.
12813*USA	**Line Break Character Interpreted Correctly in XUI Clients** In a selection process (/PD.S), if a column heading contained the right square bracket character "]" to insert a line break in the heading, the data in that column was not displayed in XUI mode. The code has been fixed in version 6.0.2 so the right square bracket no longer causes a display problem in the XUI clients.
12814*AUS	**Forward Search Fixed in F3 Help** In F3 help, the F6-Forward search function did not work correctly to find hits in large result sets in the XUI clients. This issue has been resolved in version 6.0.2.
12815*AUS	**Problem with Font Size in XPS Reports Is Resolved** If you used F9 - Effects > F (Fonts) to set the font size in a report section, ran the report in SB/XA Browser Client or SB/XA Rich Client, and printed the report to a printer via the XPS Viewer, the affected section of the report was not legible. A fix to the XPS printer driver resolves this display issue in version 6.0.2 for new installs. Existing customers who have performed an upgrade from 6.0.0 or 6.0.1 should remove "Family = SB Font" if present in XPS.CLASS.
12820*USA	**Recompiling/Recataloging Programs After 5.x to 6.x Upgrade** When upgrading from SB version 5.x to SB/XA version 6.x, it is necessary to recompile and recatalog all UniBasic or UniVerse BASIC programs and run /REGEN.EXP to regenerate expressions on all accounts. For detailed information, please see the following tech note: https://u2tc.rocketsoftware.com/documentation/PDF/1410003.pdf

Issue Number	Description
12821*USA	**Disabling Third-Party Revision Tracking Tools during Upgrades** If you are using a third-party revision tracking tool (such as PRC from SJ+ Systems Assoc., Inc.) that integrates into SB/XA, the tool must be turned off/ disabled in accounts that you intend to upgrade. Please contact your revision tracking software vendor for instructions on how to disable/uninstall the revision tracking tool before an account upgrade, and then enable/reinstall the tool after the account upgrade. Note that you may have to upgrade the third-party product for SB/XA; to avoid installation and upgrade failures, please consult your vendor before proceeding.
12824*USA	**Value of FT.TRIGGER in TU.CONFIG** In SBClient 6.0.1 in GUI mode, the Logto Another Account screen (/LOGTO), System Control Record (/HK.CONTROL), and other screens were displayed in character mode. A code fix corrects this problem in version 6.0.2.
12833*USA	**SB.DISP Calls to Proc After Display Slot Run As Expected** If SB.DISP calls a process in the Proc After Display slot of the SBSYSMENU, the process is run. In the XUI clients in version 6.0.1, if the user called SB.DISP, the Connect to Application dialog box was displayed. A code fix prevents this problem in version 6.0.2, and running a process no longer results in this unexpected behavior.
12841*AUS	**Ability to Select Auxiliary Printer in XUI Clients** In versions 6.0.0 and 6.0.1, there was no way to direct output to the auxiliary printer of choice in the XUI clients. As of version 6.0.2, SB/XA supports the same TU.SELECT.PRINTER functionality that is available in SBClient. The selected auxiliary printer, which may be the XPS printer, is recognized by TU.SEND.TO.PRINTER, Report Writer, and QRD reports.
12855*USA	**Fix Prevents Uninitialized Variable Error with COMO OFF** When running a paragraph process (/PD.P) with a Basic subroutine that executed COMO OFF, the XUI clients returned an uninitialized variable error. A code fix prevents this error in version 6.0.2.
12861*USA	**F Type Validation Must Include Third Parameter** In version 6.0.2, the "Validation Code" field in Field Definitions (/FD) no longer allows entry of "Key on Another File" (F type) validation syntax that does not include all three parameters. F:FileName,FieldName{Error Message} is not a valid syntax. The third parameter for "Must Exist (Y/N/A)" is required. F:FileName,FieldName,Y{Error Message} is a valid syntax.
12885*USA	**/RELEASE.LICENSE Process Fixed** Corrections have been made to the /RELEASE.LICENSE process to correctly release inactive user IDs in version 6.0.2.
12910*AUS	**Output File Name for HTML Reports** In version 6.0.1, it was not possible to specify the output file name as an expression in HTML report parameters. The Report Writer parameters have been amended so they now support the ability to specify a literal value or an expression as the output file name.

Issue Number	Description
12911*AUS	**Fix for Display Issue in Interleaved Multivalue Grids** If the user appended a line to a controlling multivalue field with no dependent fields, saved the record and immediately re-read the record, the newly entered value was not displayed in the correct position, so it appeared as though the data was corrupted. In fact, this was only a display issue; if the user closed the form and then re-read the record, the value appeared in the correct position. This multivalue display issue has been resolved in version 6.0.2.
12913*AUS	**Issue with Opening Combo Boxes in SB/XA Browser Client Is Resolved** In version 6.0.1, users were unable to open combo boxes in SB/XA Browser Client when the browser was set in windows mode, where screens are stacked in the display. This issue has been resolved.
12941*AUS	**Issue with Uploading GUI Default Sets Font Table Resolved** In version 6.0.1, the GUI Default Sets (GDS) font table failed to upload in SB/XA Browser Client or SB/XA Rich Client, and an error message dialog box was displayed. A code fix corrects this issue in version 6.0.2 so that when users attempt to upload the GDS font table in the XUI clients, SB/XA displays an informational message, "This option only applies to terminal definitions with GUI mode enabled."
34103*USA, 40924*USA	**HTML Check Box Available for Ask Option** Previous versions did not support the ability to set the output device for an HTML report at run time when the Output Device setting was A (Ask). An HTML check box has been added to the output destination dialog box that is displayed for the Ask option when the report is run on GUI and XUI clients.
36712*USA	**Global Themes Prompt Added in /HK.CONTROL** Versions 6.0.0 and 6.0.1 did not offer the ability to specify global themes in the System Control Record (/HK.CONTROL). A Global Themes prompt has been added in /HK.CONTROL and /SB.PARMS to specify theme files to be used as the system's global themes in version 6.0.2. If the /TH.C or /TH.I process attempts to download or compile a theme and does not find the theme in xxTHEMES, the process now checks the theme files specified in Global Themes in /HK.CONTROL.
37240*USA	**Fixes to Tag/Untag Functions** The Tag, Untag, Tag All, and Untag All functions could not be selected from the menu or from an F3 lookup, or by pressing the associated function key in GUI or XUI mode in version 6.0.0 or later. In addition, Tag All tagged all fields, rather than all records, on the line in focus. These issues have been resolved in version 6.0.2 so tagging and untagging functions work as designed in GUI and XUI modes.
37504*USA	**Global Tag/Untag Options Are Back on Menu** In the SBDEMO Car Rental System in versions 6.0.0 and 6.0.1, the Tag menu listed only four options: Tag, Untag, Tag All, and Untag All. It was missing the Global Tag and Global Untag options. This issue has been fixed in version 6.0.2, and the Tag menu again lists all six options, the same as in version 5.4.x.

Issue Number	Description
37694*USA	**New Utility to Export SBClient Settings** Existing customers who installed SBClient 6.0.1 or earlier may have session configurations, scripts, phone books, toolbars, and Smart Query definitions that can be used in SBClient 6.0.2 or later. To save settings from SBClient 6.0.1 or earlier, you can export the settings to a file before installing SBClient 6.0.2 or later. After installing the latest version of SBClient, you can then import the files containing settings that you saved. For instructions, see Chapter 2, "Installing SBClient on a Standalone PC," in *SBClient Getting Started*.
37766*USA	**Error on Conflicting Output Device and Allow HTML Settings** In Report Writer reports, the conflicting settings of Output Device = H and Allow HTML = N did not produce an error in version 6.0.0 or later. Version 6.0.2 implements code to check these settings, and an error is displayed when the settings are in conflict.
38407*USA	**Implementation of Hourglass Cursor** In SB/XA Browser Client and SB/XA Rich Client, the cursor was not displayed as an hourglass when the server was busy, so the user could continue clicking on objects and get no response. The hourglass cursor has been implemented to correct this problem in version 6.0.2.
38539*USA	**Selection Control Style Field Added** SB/XA did not provide a means to style selection forms in versions 6.0.0 and 6.0.1. A Selection Control Style field has been added in the /SB.PARMS, /UPDATE.ACCOUNT, /HK.CONTROL, and /PD.S > F6-Additional screens, allowing users to specify a XAML style to be applied to selection forms at the SB instance, account, system, and screen levels in version 6.0.2.
38542*USA	**Default Grid Style Field Added** There was no way to specify the default style for grids at the SB instance level, account level, or system level in versions 6.0.0 and 6.0.1. A grid style field has been added in the /SB.PARMS, /UPDATE.ACCOUNT, and /HK.CONTROL screens in version 6.0.2, enabling you to set the default XAML style to be applied to grids at each level.
38543*USA	**Default Dialog Box Style Field Added** SB/XA did not offer the ability to specify the default style for dialog boxes at the SB instance level, account level, or system level in versions 6.0.0 and 6.0.1. A dialog box style field has been added in /SB.PARMS, /UPDATE.ACCOUNT, and /HK.CONTROL, giving users the ability to set the default XAML style to be applied to dialog boxes at each level in version 6.0.2.
38566*USA	**Different Methodology for Locking Grids in XUI Mode** In XUI mode, double-clicking a column heading does not lock the column to the grid, as is the case in GUI mode. The lock column feature is implemented differently in XUI mode than in GUI mode. Users can lock a grid column in XUI mode by right-clicking the column heading and selecting the Lock column option from the context menu. This allows grids to employ the standard functionality of double-clicking the column heading to change the sort order in the column.
38803*USA	**Failure Prevented after Testing Connection without Saving Details** SB/XA Browser Client failed to start if the user previously accessed the SB/XA Communication Server Connection dialog box in another session and tested the connection, but did not save the details. The fix to a related issue corrects this problem in version 6.0.2.

Issue Number	Description
38815*USA	**Change to Default Binding Method for SBValue** In the default XAML styles, the SBValue on SBControl has been changed so the binding is TwoWay by default. This means that any bindings to SBValue need to specify the path. For example, what was formerly ``` <Setter Property="SBValue" Value="{Binding}" /> ``` should now be ``` <Setter Property="SBValue" Value ="{Binding Path=Content, RelativeSource={RelativeSource TemplateParent}}" /> ```
38824*USA	**F3 at Expression Prompt Opens Only Build Expression Window** When running the /EE (Evaluate Expression) process in SB/XA Rich Client, pressing F3 once at the Expression prompt opened the Build Expression window as expected, but also displayed the F3 intuitive help list of options to build the expression. This issue has been fixed in version 6.0.2 so pressing F3 opens only the Build Expression window.
38883*USA	**F3 Intuitive Help Disabled on OS User Id Field for UNIX/Linux** In the /SEC.USER.SETUP > F9-SS (Single Sign-on) screen, F3 intuitive help is not applicable to the OS User Id field in UNIX/Linux operating environments, but the F3 option was not disabled. The code has been amended so the F3 option is disabled on the OS User Id field when running SB/XA Application Server on a UNIX or Linux machine.
38927*USA	**Uninstall Option Prevents Unintentional Overwrites** The Windows uninstall program for SB/XA Application Server automatically deleted the SBDEMO account folders SB and SB.DEFN. These folders contain the DMSYSDEFN and DMSECURITY items, which the user may want to import into a new installation. This issue has been addressed in version 6.0.2 as follows: If an instance of SB/XA Application is installed on the machine, the Windows installation program displays an extra screen that prompts the user to (a) install another instance of SB/XA Application Server, or (b) upgrade or remove an existing instance. This option prevents the existing SB and SB.DEFN folders from being overwritten unintentionally.
38968*USA	**5.4.x to 6.0.x Upgrades Display Success Message** On upgrading from the UniVerse Windows edition of SB+ Server 5.4.x to SB/XA Application Server 6.0.x, the upgrade program did not display a successful completion message. The code has been amended to display this message on successful completion of upgrades to SB/XA Application Server version 6.0.2.
39049*USA	**Correction of Issue with Create Account Process** In the UniData Windows edition, version 6.0.1, the SB > Admin > Account > Create Account process failed in character and GUI modes. A code fix resolves this issue in version 6.0.2.
39182*USA	**Alignment of Branch History Report Summary Lines** In the UniData UNIX/AIX edition, the Car Rental System > Reports > Branch History Report summary lines did not align correctly. This issue has been resolved in version 6.0.2, so the summary lines are right-justified as designed.

Issue Number	Description
39217*AUS	**F3 Intuitive Help on FOR/NEXT Loop** A flaw in the NEXT logic prevented the ability to use F3 intuitive help to build a FOR/NEXT loop within an IF/THEN/ELSE condition inside a paragraph in the XUI clients. The code has been amended in version 6.0.2 so this functionality works the same in XUI mode as in GUI mode.
39293*USA	**Delete Button Disabled on Enquiries Screens** The F4-Delete button was enabled on Enquiries screens in SBDEMO in the XUI clients. A code fix corrects this problem in version 6.0.2, so the F4-Delete button is grayed out (unavailable) in XUI mode, the same as in GUI mode.
39312*USA	**Error on Detailed System Usage Screen Prevented** When running the UniData edition on UNIX/AIX, the Car Rental System > SB+ > Admin > Detailed System Usage screen returned an error message, "An error occurred calling gui_ceo_events on type SBPlus. Failed to invoke the method 'gui_ceo_events' in the class 'SBPlus'." The fix to a related issue also corrected this problem, and the error no longer occurs in version 6.0.2.
39356*USA	**Monthly Figures - SCALC5 Report Option Removed** The SBDEMO Car Rental System > Car Rental > Reports > Monthly Figures - SCALC5 screen produced an error stating that /CALC is not a valid directory. The Monthly Figures - SCALC5 report used a now-obsolete third-party product, so this option has been removed from the Reports menu in version 6.0.2.
39357*USA	**Monthly Figures - Lotus Report Option Removed** The SBDEMO Car Rental System > Car Rental > Reports > Monthly Figures - Lotus screen produced an error stating that /123R24 is not a valid directory. The Monthly Figures - Lotus report also required extra setup to work correctly, so this option has been removed from the Reports menu in version 6.0.2.
39380*USA	**Focus Retained After Pressing Alt Key** If the user pressed the Alt key on a menu in the XUI clients, the menu lost focus. The code has been revised in version 6.0.2 so focus is retained on the menu after pressing Alt.
39499*USA	**Support for Displaying Images in XPS Output** With this enhancement, version 6.0.2 provides the ability to display images in reports output to screen using the XPS printer. As with images in HTML reports, the image for an XPS report must be stored on the client machine.
39519*USA	**Spelling Changed to "License" in Reminder** The spelling has been changed from "licence" to "license" in the license reminder window displayed when users log on to SB/XA before having entered the license number for the product.
39674*USA	**Keyboard Buffering Issues Addressed** In version 6.0.1, the keyboard buffer did not work correctly in SB/XA Browser Client and SB/XA Rich Client. Users reported problems with keystrokes being lost, placed in the wrong field, or displayed in the wrong order. In some cases, the keyboard locked or did not allow typing ahead of the display. A comprehensive fix has been applied and tested to correct keyboard buffering problems in the XUI clients in version 6.0.2.

Issue Number	Description
39882*USA	**Correction of File Pointer Issues After Account Upgrade**
	After upgrading an application account from version 5.4.2 to 6.0.1 in UniData or UniVerse on Windows, users encountered file pointer errors when attempting to log on to the account. The account upgrade process has been overhauled in version 6.0.2 to address the issues described here.
39889*AUS	**Fix for Object Error in /GC Process**
	When running /GC to generate source code, if the user pressed F3 on Process Name and selected all valid processes for all process types, SB/XA produced the error "Object SBWIN_108_3*0*2 does not exist!" before data was populated in the selection grid. The code has been amended to prevent this error in version 6.0.2.
39918*USA	**Initial Sys Id Field Populated with Current System ID**
	In the SB administration account Admin > Accounts > Update An Account screen, if you entered the account name (such as SB or SBDEMO), the associated system ID (such as SA or CH) was not displayed in the Initial Sys Id field. Version 6.0.2 correct this issue to populate the Initial Sys Id field with the current system ID associated with the account.
39919*USA	**Width of 'Full Account Path' Field Increased**
	In the SB administration account, the Full Account Path field in the Admin > Accounts > Update An Account screen was not wide enough to display the entire default installation path for the SB or SBDEMO account in GUI or XUI mode. The field length has been increased sufficiently in version 6.0.2 to display the entire default path for these accounts.
39965*AUS	**F1 Help on Shell Statement**
	In /PD.SHL (Process Definitions - Shell Statements), F1 help was missing for the Shell Statement(s) field in GUI mode in version 6.0.1. The F1 help text is displayed on this field as designed in version 6.0.2.
40437*USA	**Presentation Components Installation Creates Shortcuts**
	The SB/XA Presentation Components installation program has been enhanced in version 6.0.2 to install shortcuts to SB/XA Browser Client and SB/XA Rich Client on the user's desktop. In addition, it adds shortcuts for the XUI clients in the Start > All Programs > Rocket U2 program group.
40475*USA	**Improvements to Handling of Get and Set Attributes**
	Maintenance work has been done in version 6.0.2 to improve handling of Get and Set attributes for the GUI and XUI clients. An attribute map is provided for server to client attribute mapping, and existing properties on the client have been converted into SBGUIAttribute attached properties.
40484*USA	**BulletChrome Tag Error Resolved**
	In the UniData edition running on Windows Vista, with all SB/XA components installed on the same machine, the following error occurred when loading XATheme: "The tag 'BulletChrome' does not exist in XML namespace." A fix prevents this error in version 6.0.2.

Issue Number	Description
40515*USA	**XATheme Definition Shipped with Product** In the SBDEMO XAML Examples (XA) system in version 6.0.1, the System Control Record (/HK.CONTROL) populated XATheme as the default value for Available Themes and Default Theme. However, the product was shipped without a theme definition for XATheme, so the theme was invalid until the user ran /THEME.DEFN to create the XATheme definition. Version 6.0.2 ships with the XATheme definition; it is present in DMSYSDEFN.
40660*USA	**Correction to Car Rentals Models > F5-Prices** In SBDEMO Car Rentals System > Car Rental > Maintenance > Models, the F5-Prices window displayed prices for the previous model code entered. Code for the F5 function has been fixed in version 6.0.2 to display pricing for the specified model code.
40696*USA	**Width of 'Use Native OE Index' Combo Box Increased** In /FD (Field Definitions) > Xref > Define Xref Fields, the Use Native OE Index combo box was not wide enough to accommodate the default value "<none>". The field width has been increased to display the values in their entirety in version 6.0.2.
40715*USA	**Issues with TRANSLATE Process Resolved** In previous versions, the TRANSLATE process did not function correctly and appeared to corrupt data if the Version number was not set for the application in the System Control Record (/HK.CONTROL). This issue has been resolved in version 6.0.2.
40763*USA	**Display of Image in Car Maintenance** In SBDEMO Car Rentals System > Car Rental > Maintenance > Cars (Car Maintenance), the image called by F7-Image did not display correctly and the dialog box froze. The image display has been fixed to prevent these problems in version 6.0.2.
40776*USA	**'IBM' Removed from Installation Program and Default Path** The installation program has been updated to remove IBM path names and other IBM naming. Note that the default installation path has been changed from C:\IBM\U2\SBXA to C:\U2\SBXA. The program group has been changed from IBM U2 to Rocket U2.
40793*USA	**Fix Prevents Process Error in Enquiries Screen** In SB/XA Rich Client and SB/XA Browser Client, the Help menu on the SBDEMO Car Rentals System > Car Rental > Enquiries screens returned the error "No Process Found". Corrections have been made to the Enquiries Help menu so this error no longer occurs in version 6.0.2.
40802*USA	**Installation Revised for 64-bit Operating Systems** In version 6.0.1, the SB/XA installation program failed for all three components on Windows 7 64-bit operating systems. The installation program has been revised and the three SB/XA components install without error on Windows 7 64-bit machines in version 6.0.2.
40803*USA	**Code Revised to Prevent G-Option Grid Error** Displaying data in a G-option grid sometimes caused an error that repeated in a loop in the GUI and XUI clients. The code for G-option grids has been amended and this problem no longer occurs in version 6.0.2.

Issue Number	Description
40835*USA	**Code Pages 1251 and 1252 Added to F3 Intuitive Help** Code pages 1251 and 1252 have been added to the F3 intuitive help on the Code Page field in the SB Instance Setup dialog box (/SBINSTANCE.SETUP).
40841*USA	**Combo Box Returns MV Data in All Modes** In a customer's application, a combo box returned data from a multivalued selection in character mode, but not in GUI or XUI mode. The fix for a related issue corrects this problem in version 6.0.2.
40843*USA	**List of Default Styles Standardized** The list of default styles has been standardized to contain all of the same styles in /SB.PARMS, /UPDATE.ACCOUNT, and /HK.CONTROL screens.
40869*USA	**Memory Leak in SBDEMO Forms Addressed** Performance tests revealed a memory leak when displaying the I*CARS*S1 and I*BRANCH*S1 forms. This problem has been corrected in version 6.0.2, and the memory usage statistics have returned to normal levels in both forms.
40891*USA	**Insert and Delete Functions Fixed in Converted Forms** The Ctrl-INS and Ctrl-DEL functions did not work in grids on forms that were converted from character column and row layout to XUI. The column and row conversion has been fixed in version 6.0.2 so these functions work as expected in XUI mode.
40914*USA	**Fix for Mandatory Field Exception** Setting the GuiObjectDefinition.FieldDefinition.MandatoryField property at run time caused an exception. The XAML code for this property has been revised so the property can be set at run time without error in version 6.0.2.
40915*USA	**Example for Setting Style on Grid Row** A XAML code example demonstrates how to set a style on a grid row. This example is available in tech note SBXA-16 at https://u2tc.rocketsoftware.com > U2 Knowledge Base.
40941*USA	**XAML Styles Applied to Individual Grids in Converted Forms** In forms converted from character column and row layout to XUI, using a XAML style to set the width of a grid worked only on the last grid on the form, and that style was applied to all other grids on the form. A fix corrects this problem so XAML styles are applied to grids individually on forms converted from character to XUI. Note that this fix does not extend to forms converted from GUI to XUI.
40942*USA	**ProcessName Property Displays Correctly** When generating a driver from /REGEN.GUI, the ProcessName property in GuiObjectDefinition was incorrect. The process name for the XUI driver was displayed as "REGEN.GUI" rather than the name of the process. This issue has been resolved so the correct process name is displayed in version 6.0.2.
40943*USA	**Center GUI Screens Preference Now Applies to F1 Help** The user preference for centering GUI screens was not applied to the positioning of F1 help in version 6.0.1. F1 help text was displayed at the lower right side of the window even if the Center GUI Screens option was set to Y (Yes). The Center GUI Screens preference is applied to positioning of F1 help in version 6.0.2.

Issue Number	Description
40945*USA	**F3 Intuitive Help Available on Global Themes File Slot** The Global Themes File slot in Additional System Parameters (/HK.CONTROL.SYSTEM) was missing F3 intuitive help in version 6.0.1. This issue has been corrected in version 6.0.2 and F3 intuitive help is called on this slot as designed.
40952*USA	**Fix for Mouse Click Issues in Grid** Clicking in a grid on an output form prevented any further mouse clicks. A fix resolves this problem in version 6.0.2.
40954*USA	**Correction of Data Display in /LICENSE.AMEND** In version 6.0.1, data was displayed in the wrong fields in the /LICENSE.AMEND dialog box in character mode. This issue has been corrected in version 6.0.2.
40966*USA	**Data Populated in Display-Only Fields of Tabbed Forms Before Read** In tabbed forms containing a display-only field with a sequence number preceding a data read step, data was not displayed in the field until after the read. The problem has been resolved so data is populated in display-only fields preceding the read.
40967*USA	**F1 Help on Windows ID Field Revised** The F1 help on the Windows ID field in User Security Setup (/SEC.USER.SETUP) > F9-SS has been revised to clarify what to enter in this field. Windows identity is the domain name or local name AND the user name entered when logging on to the computer. If you need to verify the user's Windows identity, press Ctrl + Alt + Delete. This opens the Windows Security screen, where Logon Information displays the user's Windows identity.
40977*USA	**Grace Period Changed to 10 Days** At version 6.0.2, the grace period for entering license information and authorizing the product has been changed to 10 days. Evaluation licenses can be now be authorized for a period of 60 days.
40984*USA	**Security API Covers Single Sign-On** The security API has been extended in version 6.0.2 to cover single sign-on. The API enables customers to create and update the records needed for single sign-on programmatically. For details, look for the updated DeveloperZone article regarding the security API.
40986*USA	**F2 Saves Changes in Language Translation Screen** If the user pressed F2 to save changes in the Language Translation screen, changes to field definitions were not saved. The changes were saved if the user pressed Esc to escape from this screen. This problem has been corrected in version 6.0.2.
41008*USA, 41180*USA	**Support for VBScript in XUI Clients** SB/XA Browser Client and SB/XA Rich Client have been enhanced to support VBScript functionality in version 6.0.2. The SBDEMO XAML Examples (XA) application now contains a VBScript example that demonstrates how a graph program written in VBScript is displayed by Microsoft Excel. SB/XA supports all the same functionality of the TUBP library that is available in SBClient except for TU.SCRIPT.ADDOBJECT.

Issue Number	Description
41011*USA, 41117*USA	**Namespace Changes in XAML Style Definitions** In version 6.0.2, "IBM.SBPlus" has been changed to "sbxa" in the namespace in default XAML styles. To see the new namespace definitions in the default XAML styles, open the DefaultStyles.xaml file in the \SBDEMO\XATHEMES folder in the SB/XA installation directory. The default directory is C:\U2\SBXA\ApplicationServer\UniData\SBDEMO\XATHEMES or C:\U2\SBXA\ApplicationServer\UniVerse\SBDEMO\XATHEMES. You can use the screen editor process to view the XAML code in this file by entering the following: /SE XATHEMES DefaultStyles.xaml If you wrote a custom XAML theme, you will need to update the namespace definitions in the same way, substituting "sbxa" for all occurrences of "IBM.SBPlus". Any references to "http://schemas.IBM.SBPLUS.com/WPFControls" should be changed to "http://schemas.sbxa.com/WPFControls". All occurrences of "xmlns:sbc", "xmlns:sbp", "xmlns:sbs", and "xmlns:sbs" should be changed to "xmlns:sbc". For example: `xmlns:sbc="http://schemas.sbxa.com/WPFControls"`
41014*USA	**MAPI Support for Email Messaging in XUI Clients** The same electronic mail functionality available in SBClient is now supported in SB/XA Browser Client and SB/XA Rich Client. All clients use Microsoft's Messaging Application Program Interface (MAPI). MAPI allows client programs to become email messaging aware; it interfaces SB messaging-based services to Microsoft Outlook. MAPI is built into SBClient, but it must be installed as a separate add-on for the SB/XA Presentation Components. The MAPI installation program for the XUI clients is shipped in the Install folder on the SB/XA product CD. Open the SBXAMAPIBridge.msi file to run the installation wizard. The SB server routines in the TUBP library have not been changed, so existing customer email programs work in SB/XA Browser Client and SB/XA Rich Client without modification.
41055*USA	**Correction to 3D Grid Example** Displaying the 3D Grid example in the SBDEMO XAML Examples (XA) application caused the XUI clients to fail. The XAML code for this example has been amended so the 3D Grid example displays without error.
41123*USA	**User Security Setup Issue Corrected** If you saved a user record in the User Security Setup screen (/SEC.USER.SETUP) and then opened the same user record again, the screen was unresponsive. A fix to SEC.USER.SETUP resolves this issue in version 6.0.2.
41133*USA	**DEBUG Statement Fixed** When executing a BASIC DEBUG statement, the debug window failed. The debugger code has been fixed in version 6.0.2 so the DEBUG statement runs without causing this problem.
41134*USA	**Upgrade of Xceed DataGrid** SB/XA 6.0.2 has upgraded from version 3.0 to version 3.6 of the Xceed DataGrid for Windows Presentation Foundation (WPF).
41268*USA	**F1 Help Implemented in SB Instance Setup** The SB Instance Setup (/SBINSTANCE.SETUP) screen did not provide F1 field-level help. F1 help has been implemented on fields in this screen in version 6.0.2.

Issue Number	Description
41278*USA	**Hide Column Functionality Fixed**
	Specifying multiple column numbers or specifying the controlling multivalue column in the SETATTR command did not work to hide columns of the grid in XUI mode. A fix resolves this issue in version 6.0.2.
41280*USA	**Namespace Updated in Default XAML Styles**
	The SB/XA default XAML styles have been updated with changes to the namespace definitions (see details under 41011*USA, 41117*USA above). The updated DefaultStyles.xaml file is located in the \SBDEMO\XATHEMES folder in the SB/XA installation directory. The default directory is C:\U2\SBXA\ ApplicationServer\UniData\SBDEMO\XATHEMES or C:\U2\SBXA \ApplicationServer\UniVerse\SBDEMO\XATHEMES. You can use the screen editor process to view the XAML code in this file by entering /SE XATHEMES DefaultStyles.xaml.
41337*USA	**Upgrade Process Reports Successful Completion**
	SA.TRANSFER.SBPLUS did not report when an upgrade to 6.0.x succeeded. The upgrade process has been fixed to resolve this issue in version 6.0.2.
41345*USA	**Width of /FD Combo Boxes Increased**
	In /FD (Field Definitions), combo boxes were not wide enough to display the entire value in GUI or XUI mode in version 6.0.1. This issue has been resolved in version 6.0.2.
41366*USA	**Issue with Double-Clicking Toolbar Button Resolved**
	Double-clicking on a toolbar button caused SB/XA Rich Client to fail. This issue has been corrected.
41406*USA	**Misspelling of SB.DISP Corrected**
	Corrections have been made to change SB.DSIP to SB.DISP in function calls in SH.SEC.API.
41476*USA	**Spelling Changed to "License" in /LICENSE.AMEND**
	The spelling has been changed from "Licence" to "License" in the title bar of the Amend License Details screen (/LICENSE.AMEND).
41539*USA	**Remove Prior Versions of SB/XA Presentation Components**
	The installation program for SB/XA Presentation Components does not work correctly to upgrade previous versions of SB/XA Browser Client or SB/XA Rich Client to version 6.0.2. You must uninstall the old versions of these components from Control Panel > Add or Remove Programs before installing the SB/XA Presentation Components from the SB/XA 6.0.2 product CD.
41687*USA	**/XE Tool Removed**
	The XUI Editor (/XE) tool was problematic in version 6.0.1, and it has been removed from version 6.0.2. The Screen Editor (/SE) tool can be used instead.

Issue Number	Description
41795*USA	**Version 6.0.2 Exclusions and Limitations**
	Following is a list of exclusions for SB/XA 6.0.2:
	Future functionality
	Future releases of SB/XA include plans for the following features. These features are not included SB/XA 6.0.2.
	▪ .NET control integration (Planned for 6.0.4 release)
	▪ ActiveX support (Planned for 6.0.4 as part of .NET control integration release)
	▪ Integration with Microsoft Office (Planned for 6.0.3 release)
	▪ Internationalization (Unicode) (Planned for 6.1 release)
	▪ Graphs (Not currently planned)
	▪ Matrix definitions (Not currently planned)
	▪ SB Calculator (Not currently planned)
	▪ Screen Designer (Planned for 6.1 release. Use SBClient 6.0.2 screen designer with SB/XA 6.0.2)
	▪ Report Designer (Use SBClient 6.0.2 screen designer with SB/XA 6.0.2)
	Known limitations of SB/XA Browser Client vs. SB/XA Rich Client
	▪ The F4 and F10 function keys are intercepted by the Browser Client before SB/XA can process them.
	▪ The "X" (Close) button in the SB/XA Browser Client window closes the Browser Client without updating the server (much the same as F-keys).
	▪ Keyboard buffering is disabled by default in SB/XA Browser Client due to the restrictions of its architecture.
	The F4 and F10 function keys are intercepted by the Browser Client before SB/XA can process them. The "X" (Close) button in the SB/XA Browser Client Window closes the Browser Client without updating the server (much the same as F-keys).
	Obsolete
	The following items are not included in the current version of SB/XA and will not be included in a subsequent version:
	▪ DDE API – Use SBClient 6
	▪ MPX in EN mode – Use SBClient 6
	▪ SBCOM – Use SBClient 6.0.1
	▪ Character mode TCL/ECL – Use SBClient 6 as console
	▪ SBClient Scripting – Use SBClient 6
	▪ SBClient SmartQuery – Use SBClient 6 or use server-based QRD facility
	▪ DataC objects – Use SBClient 6
	We do not plan to implement SBOPEN commands in SB/XA. The SBH.RUN.COMMAND attribute is dependent on SBOPEN, and therefore it is not supported by SB/XA.
	We do not anticipate implementing the following for TUBP:
	▪ EXPORT.TUQUERY
	▪ HOST GUI TU.FORM.XXX
	▪ HOST GUI TU.INIT
	▪ HOST GUI TU.MENU.XXX
	▪ HOST GUI TU.RESET

SB/XA v6.0.1 release notes

Build 2135
Release Date: November 2009
These release notes provide information about new features, enhancements, and fixes in SB/XA v6.0.1.

What's new in SB/XA v6.0.1

Output to screen with XPS Viewer
In version 6.0.1, output from Report Writer, QRD, and TU.SEND.TO.PRINTER can be viewed on screen in SB/XA Browser Client or SB/XA Rich Client. The new viewer implemented in the SB/XA Presentation Components is built on Microsoft's XPS Viewer technology and uses standard Windows controls. XPS printing allows users to modify the font size so the output fits within the screen display area. Users can also print the output to any printer that is defined on the client computer, even if the printer is unknown to SB/XA Application Server or SB/XA Communications Server. For further details, see the *SB/XA 6.0.1 New Features* manual. 11899*USA, 38304*USA

XAML styles for interleaved multivalues
SBClient 6.0.0 and earlier support two types of grids: (1) the standard grid and (2) a quasi grid invoked by specifying the G option in the Screen Designer > F5-Enter Field > Control (Controlling multivalue) field. At version 6.0.1, SB/XA Browser Client and SB/XA Rich Client support XAML styles for interleaved multivalues, offering the same flexibility as the G-option grid. For this reason, SB/XA Browser Client and SB/XA Rich Client no longer support the G option as of version 6.0.1. For further information about XAML styles for interleaved multivalues, see the *SB/XA 6.0.1 New Features* manual. 11959*USA, 37746*USA

Totals in fixed footer row of grid
SB/XA 6.0.1 provides the ability to place a derived totals field in the fixed footer row of a grid. For information about adding a totals field in the footer row, see the *SB/XA 6.0.1 New Features* manual. 38018*USA

Dynamic styling with XAML code snippets
Version 6.0.1 supports dynamic styling through the use of XAML code snippets. With this feature, you use short segments of XAML code to define the display characteristics of selected elements of the user interface, including labels, display fields, background, and foreground. Examples of XAML code snippets for these elements are available in the XAML Examples (XA) application in SBDEMO. For further information about dynamic styling, see the *SB/XA 6.0.1 New Features* manual. 40060*USA

Column and row coordinates of character form converted to XUI rendering
When forms are converted from character mode directly to XUI mode in SB/XA 6.0.1, the size of the form, position of fields, and size of objects in the XUI rendering closely corresponds to the column and row coordinates of the character-based form. For more information on conversion of forms from character to XUI, see the *SB/XA 6.0.1 New Features* manual. 39903*USA

Creating and using XAML themes
Version 6.0.1 introduces a number of improvements to the implementation of XAML themes, including the following:

▪ Before SB/XA can load and use a XAML theme, you must create a theme definition using the Theme Definition (/THEME.DEFN) tool.

▪ The names and functionality of two theme processes have changed. The /TH.C process replaces the Compile Theme (/CT) process, and the /TH.I process replaces the Upload and Compile Theme (/ UCT).

For further information on changes to XAML themes, see the *SB/XA New Features* manual. 38815*USA

Support for device licensing
SB/XA version 6.0.1 implements device licensing that supports the device licensing on the U2 data servers. When a user connects from SB/XA Browser Client or SB/XA Rich Client to SB/XA

Communications Server, the client passes along its credentials to SB/XA Communications Server. SB/XA Communications Server then connects to the U2 data server and passes the client credentials to the U2 data server. Device licensing allows you to run multiple sessions from a single client computer, consuming only one data server license and one SB/XA license. 38472*USA

New features, enhancements, and fixes in SB/XA v6.0.1

The following issues were addressed in this release:

Issue Number	Description
6131*UK	**Data Sort on F3 Help** In previous versions, if the user pressed F3 for help on date fields, numeric values, or monetary values in GUI mode, and then tried to sort the data, the information was sorted in ASCII left-justified mode. These fields are now sorted by data order, which is the standard Windows behavior.
6850*UK	**Ability to Define Icon for Any Menu Option in SBX Tree** In previous versions, users had the ability to define an icon for any option on the SBSYSMENU in the SystemBuilder Explorer (SBX) tree when the Multiple Sysids option was selected. With this enhancement, users can define an icon for any menu option on any menu in the SBX tree, regardless of whether the Multiple Sysids or Single Sysid option is selected.
7231*USA	**Fix to Enforce No-Comma Rule in Password Validation** The SB password validation process did not enforce the no-comma rule in the /CHANGE.PWD process, even though it enforced the rule when changing passwords at login prompt. The issue was resolved in version 6.0.0, but was not previously documented.
8814*USA	**File Pointers to Security Audit Logs Are Generated for New Accounts** In versions 5.4 and later, SB did not generate file pointers to the security audit logs for newly created accounts. A code fix in version 6.0.1 corrects this problem, and the file pointers are generated as expected.
10012*USA	**Port Terminal Definition No Longer Checked in GUI Mode** If the port used to connect the client to SB/XA Communications Server was set up with a terminal definition in TERM.CONFIG, SB/XA Communications Server failed to connect. This required a reboot of the machine running SB/XA Communications Server. In version 6.0.1, the routine to check the port terminal definition is no longer performed when the client is running in XUI mode.
10057*USA	**Fix to Call GLOBAL.LOG Process** In versions 5.4.1 and later, the GLOBAL.LOG process, which should be called automatically when a definition of any type is updated through a tool, did not run after the user saved a change to a definition from a secondary screen. This issue has been corrected in version 6.0.1.
10484*USA	**Account Upgrade Generates File Pointers in SB Administration Account** When upgrading an account, SB did not create the file pointer DMSECURITY.AUDIT2 to point to DMSECURITY.AUDIT in the SB administration account. This issue has been corrected in version 6.0.1.
10578*USA	**Correction to Hover Help on setup.exe File** When hovering over the setup.exe file on the version 6.0.0 SB/XA product CD image, the hover help showed an incorrect description of the file. The information has been revised with the description "SB/XA CD Setup," and the copyright date and version number have been updated.

Issue Number	Description
10589*USA	**Toolbar Downloads After Creating xxRESOURCE** If the user did not create the xxRESOURCE file for the system ID and then ran a screen containing a toolbar, the images for the toolbar were missing, and there was no way to correct the problem other than clear the local cache. Version 6.0.1 allows you to close the screen and then create the xxRESOURCE file. After the xxRESOURCE file exists, the images for the toolbar are downloaded the next time the toolbar is displayed.
10603*USA	**Differences in Navigating with Arrow Keys in XUI and GUI Modes** Navigation with the arrow keys does not work the same in XUI mode as it does in GUI mode. Pressing the down arrow key in GUI mode (SBClient) advances the cursor to the next field; in XUI mode (SB/XA Browser Client and SB/XA Rich Client), it advances the cursor to the end of the current field. There is no plan to change the behavior of the arrow keys in the XUI clients. When working in SB/XA Browser Client or SB/XA Rich Client, use the Tab key and Enter key to navigate the screen.
10621*AUS	**Auto Accept Combo Boxes Option Is Fixed** In SB/XA 6.0.0, the Auto Accept Combo Boxes option in SB+ Control Parameters > F8-Display Defaults > F5-GUI Display Defaults had no effect. A fix has been implemented in version 6.0.1 so the option works as designed.
10652*USA	**ToolTips Help No Longer Contains "_char10_" String** If first-level help contained two lines or more, the ToolTips help visible when hovering over the field contained the string "_char10_". The extraneous text has been removed from the help string in version 6.0.1.
10672*USA	**MPX Submenu Available in EM Mode in XUI Clients** Added support for the MPX submenu of the SBX menu tree in the SB/XA Presentation Components (SB/XA Browser Client and SB/XA Rich Client) in EM mode.
10676*USA	**Support for F1 More Help in XUI Clients** F1 More Help was not available in SB/XA Browser Client and SB/XA Rich Client in version 6.0.0. The XUI clients support this Help feature as of version 6.0.1, providing the same functionality as in GUI and Character modes.
10685*AUS	**Toolbar with Nonzero Settings Properly Displays as Floating Window** If the X pixel and Y pixel positions of a toolbar (defined in the F5-Aspect subscreen) are not zero, the toolbar should be displayed as a floating window. In version 6.0.0, toolbars with nonzero settings were rendered as a speedbar, fixed to the main menu. This has been corrected in version 6.0.1, so a toolbar with nonzero settings is rendered as a floating window, as designed.
10686*USA	**Report with Output to Hold File No Longer Produces Error** In the 6.0.0 version for UniData only, generating a report with output to the Hold file resulted in an "Uninitialized variable" error. A fix has been implemented in version 6.0.1 to prevent this error.

Issue Number	Description
10688*USA	**Single Sign-On Instructions Changed to Include Non-Single Sign-On Setup** Users who do not want to enable Single Sign-On must still complete most of the same setup steps required for Single Sign-On. The title of Chapter 6 of the SB/XA Application Server Reference Manual has been changed to "Setting Up Application Access and Configuring Clients". The chapter now covers steps to enable application connections for both Single Sign-On and non-Single Sign-On customers. This chapter also contains steps on a new feature for configuring the SB/XA clients.
10689*USA	**Fix to Set @MAINFILE to Proper Value** The COMMON variable @MAINFILE was set to null if a tool read was present in the Process After slot in a selection process definition (/PD.S). A code change in version 6.0.1 corrects the problem so @MAINFILE is set to the proper value.
10693*USA	**Change to Display Tabs in Multiple Rows in XUI Clients** In GUI mode, tabbed screens display multiple rows of tabs so they fit within the required width of the screen. However, in XUI mode in version 6.0.0, all tabs were displayed on a single row, and the size of the screen was increased to accommodate the width of the tabs. This issue has been addressed in version 6.0.1 so tabbed screens display tabs on multiple rows, and the width of tabs has been decreased to accommodate more tabs per row.
10696*USA	**Double-Click Selects List Item in XUI Clients** In SB/XA Browser Client and SB/XA Rich Client, double-clicking an item in a selection list did not automatically select the item. The behavior has been corrected in version 6.0.1.
10700*USA	**Support for UT.COMDLG.S File Path Selection Process** The file path selection process UT.COMDLG.S, which allows users to drill down to a path and return that path in a field as the @VALUE, was not supported in version 6.0.0. Entering UT.COMDLG.S displayed a "Not implemented" message. Support for this process has been added in version 6.0.1.
10706*USA	**Fix for Issue with Focus on the Wrong Radio Button** In GUI Functions, if you set the default value in a field to a radio button option, the screen showed the correct radio button as selected and the proper value was stored, but the focus indicator was on the last radio button in the group. In version 6.0.1, the code has been fixed so the focus is on the selected radio button. In addition, a new property, SBFocusContentTemplate, allows the user to control what the content looks like in the option that has focus.
10707*USA	**Availability of Right-Click Menus in XUI Clients** SB/XA Browser Client and SB/XA Rich Client now support right-click context menus for fields. The behavior is similar to the right-click context menus in GUI mode, with the following exceptions: (1) right-clicking in a field that does not have focus displays a dummy context menu, indicating that the user must first give focus to the control, and (2) right-clicking in a field in a grid gives focus to that cell, and the appropriate context menu is displayed.
10709*USA	**Enhanced Form Control** After resizing and moving a main form in SB/XA Browser Client or SB/XA Rich Client, the new size and position were remembered in the same session, but not after closing the client and opening a new session. As a related issue, other forms that were contained in the main form did not move with the main form. SB/XA 6.0.1 implements an enhanced version of form control that achieves a more intuitive behavior.

Issue Number	Description
10710*USA	**XUI Clients Display User's Name in Locked Record Message** When a user locked a record In SB/XA Browser Client or SB/XA Rich Client, the user's name was not displayed in the locked record message. The behavior has been corrected so the user's name is displayed the same as it is in SBClient.
10758*USA, 11175*USA	**XAML Style for Button That Was Added in GUI Mode** Prior to version 6.0.1, when a button was added using the screen designer (/SD) in GUI mode, and the button was not associated with a function key, a XAML style could not be applied to the button. This issue has been resolved in version 6.0.1, and users can now specify a XAML style for buttons created in the screen designer. The XAML style is now stored in attribute 54 of the screen definition.
10901*AUS	**Data Stacking to Selection Processes** In SB/XA Browser Client and SB/XA Rich Client, data entered in an input field was not data-stacked to selection processes if the user invoked the selection process from a multivalued field in a grid. A code change corrects the data stacking behavior of grids in version 6.0.1.
10934*USA	**DISP 7 Message Is Now Cleared from Screen** The SB command DISP 7, which is called in a paragraph process to display a message on the user's screen and clear it from the screen after a set period of time, did not clear as expected in SB/XA Browser Client and SB/XA Rich Client in version 6.0.0. This has been fixed.
10938*USA	**Error on F3 Help in Date Field on Tabbed Screens** Using F3 to get help on a date field in tabbed screens caused SB/XA Browser Client or SB/XA Rich Client to issue an error message stating that the input was not in a correct format, and after that to become unresponsive. This issue has been resolved.
10944*USA	**Fix Prevents Problems after Modifying Button Style** If the user modified a button style, the style was not correctly applied to buttons in the /PD.S selection process, and the mouse click event was not invoked when the button was clicked. The code has been revised to correct this behavior in version 6.0.1.
10945*AUS	**Column Headings with T Option in /PD.S Process** For /PD.S selection processes that specified the T option to display field descriptions as column headings, the headings were not displayed when the process was run in SB/XA Browser Client or SB/XA Rich Client. Version 6.0.1 implements a code fix to correct this problem.
10951*USA	**Fix to Hot Keys Assigned to Buttons** The hot keys assigned to buttons in dialog boxes did not work in SB/XA Browser Client or SB/XA Rich Client. A fix has been implemented so hot keys work as expected in version 6.0.1.
10954*USA	**Fix for "Index out of range" Error in /PD.I** In version 6.0.0, if an input process definition (/PD.I) specified a process in the Process Before Screen Display slot, SB/XA Rich Client returned an "Index out of range" error. A code change in version 6.0.1 prevents this error.

Issue Number	Description
10975*USA	**Options>> Button No Longer Causes Client to Fail** During logon, if the user clicked the Options>> button to get additional information, clicked the Options>> button again, and then clicked the Connect button, SB/XA Browser Client or SB/XA Rich Client would not connect and failed to respond. This issue has been resolved.
10987*USA	**Warning when File Update Process Encounters a Lock** In versions 5.4 and later, if a file update process encountered a lock, the process did not display a warning and did not respond, which led users to assume that the process had failed. Beginning with version 6.0.1, SB/XA displays a warning when a file update process encounters a lock, stating the file name of the locked file, the key, and the user ID of the user who locked the file.
11016*USA	**Issue with SETATTR Switching Height and Width Values Is Resolved** SETATTR switched the height and width values of X and Y coordinates in grids in SB/XA 6.0.0. The code has been revised to correct this problem in version 6.0.1.
11021*USA	**Criteria for Restricted Shell Verbs Expanded** In versions 5.4 and later, Group Security Setup allowed you to enter a verb in the Restricted Shell Verbs slot only if field 1 of the VOC entry was equal to V. At version 6.0.1, the Restricted Shell Verbs slot accepts any verb for which field 1 of the VOC entry is equal to V or C.
11056*USA	**Work Field Without a Field Definition No Longer Produces Error** With the Multilanguage option set to On, creating a work field on a main screen with no field definition and then creating a work field on a subscreen of the main screen with no field definition resulted in an error in certain conditions in versions 5.4.2 and later. If the user ran the main screen in GUI mode and called the subscreen, the subscreen was displayed in Character mode and the following error was displayed: "Couldn't create textclass object reference at X,Y. Object name already in use. 405, w5.1". A fix has been implemented in version 6.0.1 so that work fields created with no field definition do not produce an error and the subscreen runs correctly in GUI mode.
11059*USA	**INCLUDE Statement Is Now Replaced** In the compile theme process (/CT), the INCLUDE statement for the theme entered as the ThemeName parameter was not being replaced as expected in version 6.0.0 for UniData. A fix has been implemented in the porting routine in version 6.0.1 to address this issue.
11066*USA	**Line Separator in Type 1 Menus Displayed Properly** In version 6.0.0, type 1 menus displayed an 'L' instead of a dividing line separator. A code fix corrects this problem in version 6.0.1.
11068*USA	**Changes to Escape Processing in Dialog Boxes** In some situations, pressing Esc in dialog boxes resulted in the error, "The Object 'DIALOG*nn*nn' does not exist in the object map." Dialog boxes were performing base form escape processing in addition to their own dialog-specific escape processing. In version 6.0.1, dialog boxes perform only their own escape processing, preventing this problem.

Issue Number	Description
11069*USA	**Changes to SETATTR Background and Foreground Colors** SETATTR did not set background and foreground colors correctly in grid cells in SB/XA Browser Client or SB/XA Rich Client. The *col*row syntax for setting background and foreground colors in grid cells and the syntax for setting the background and foreground colors in grid rows now works as expected, with one exception: In GUI mode, the last-set attribute takes precedence, while in XUI mode, the individual cell setting takes precedence.
11072*USA	**Resolution of Issue with REGEN.EXP Output Logs** The /REGEN.EXP process did not log output in version 6.0.0, so if the process failed, there was no record to verify where the failure occurred. This has been fixed.
11162*USA	**Sorting Allowed Only in Editable Grid Columns** In SB/XA Browser Client or SB/XA Rich Client, sorting in grid columns of input screens could potentially cause data corruption. In version 6.0.1, sorting in grid columns in input processes is allowed only if there are no editable columns; otherwise, sorting is disabled.
11168*USA	**.LOG Process Now Supported in /TH.C and /TH.I Processes** Support for the .LOG process has been added for the /TH.C (Compile Theme) and /TH.I (Compile and Invoke Theme) processes in version 6.0.1.
11169*USA	**Evaluation Licenses Validated without Security Violation** When users attempted to authorize a valid SB/XA evaluation license, a security violation occurred. This issue has been corrected, so a valid evaluation license can be authorized in version 6.0.1 without problems.
11185*USA	**Enter Key Mapped to Connect Button in Logon Dialog Box** If users pressed the Enter key after entering a password in a logon dialog box, this did not execute the action to connect to the application. The Enter key, which is the default action in logon dialog boxes, is now mapped to the Connect button. To ensure that users enter the required information, the Connect button is now disabled until a value has been entered in the User Name box.
11190*USA	**Leading Zeros No Longer Suppressed in Code Tables** If a code table is updated by an expression and the expression supplied a value with leading zeros, the leading zeros were suppressed. This has been fixed.
11204*USA	**Fix Prevents Corruption of SB.CONTROL Record** In version 6.0.0, if you edited the SB.CONTROL record in DMCONT using /SB.PARMS, the SB.CONTROL record was corrupted. This issue has been corrected in version 6.0.1.
11205*USA	**UT.NEW.SYS Message Is Now Suppressed in /SYS Process** A UT.NEW.SYS message appeared in the terminal window when using the /SYS process to change to a different system ID. The problem has been fixed in version 6.0.1, so the message no longer appears when the system ID process is called.
11212*USA	**Fix for Vertical Scroll Bar in Intuitive Help** The vertical scroll bar in the intuitive help screen obscured the help text in the last column of the screen. When calculating the grid size, SB/XA did not allow sufficient space to display the scroll bar. This has been fixed.

Issue Number	Description
11213*USA	**Guidelines on Changing the SB Account Name**
	If you change the name of the SB account, we advise that you not use the same name as any part of the installation path. For example, if the application path is C:\ABCo\SBXA\ApplicationServer\UniData, do not rename the SB account to "ABCo" or "SBXA" or any name that repeats a part of the installation path. If you use a repeat name, do not use FIX.SBPLUS.POINTERS, as it will not fix your pointers.
11233*USA	**Disabled F3 Help for Window Co-ords in XUI Clients**
	Pressing F3 in the Window Co-ords field of the Menu Definitions screen (/MD) caused SB/XA Rich Client to become unresponsive. F3 help on Window Co-ords has been disabled in XUI mode in version 6.0.1 to prevent the client from failing.
11244*USA	**Property Added to Prevent Failure After /LOGTO and F3 Sequence**
	Running the /LOGTO process and then pressing F3 caused SB/XA Browser Client or SB/XA Rich Client to fail. A new property was added in version 6.0.1 to prevent client failure in this sequence of actions.
11248*USA	**Message Indicates F7 - Layout Is Unavailable in XUI Clients**
	In SB/XA Browser Client or SB/XA Rich Client, pressing F7 - Layout in Menu Definitions for a type 3 or type 4 menu opened a character screen to define the menu layout. The Menu Definitions process then became unresponsive. This issue has been addressed in version 6.0.1, so after pressing F7 - Layout in the XUI clients, a message indicates that this feature is not implemented.
11254*USA	**Support Added for F3 Help on Date and Money Fields**
	In SB/XA Rich Client, pressing F3 in the Default Date Conversion or Default Money Conversion field of the System Defaults screen (Admin > SB+ Setup > SB+ Control Parameters > F5 System Defaults) resulted in an error that required closing and restarting the client. Support for F3 help on the date and money fields has been added in version 6.0.1.
11282*USA	**Issue with Paragraph Lines Constructed Using F3 Help Is Resolved**
	Paragraph lines constructed using F3 intuitive help were not inserted correctly into the paragraph, and the previously inserted lines were overwritten. This problem has been resolved in version 6.0.1.
11285*USA	**Account Upgrade Creates Security Audit File Pointers**
	Account upgrades in versions 5.4.2 through 6.0.0 did not create pointers to DMSECURITY.AUDIT2 or QDMSECURITY.AUDIT. The pointers are created as expected during account upgrades to SB/XA 6.0.1.
11300*USA	**$USER Record Retained in Application Account Upgrade**
	Upgrading an application account deleted the $USER record, which consequently forced the user to re-license SB/XA. A fix in version 6.0.1 corrects this issue so the $USER record is no longer deleted in an application account upgrade.
11302*USA	**Fix to Prevent Error on First Run of Input Process Screen**
	SB/XA produced an error when running an input process screen for the first time only. This issue has been resolved in version 6.0.1.
11316*USA	**Numeric Sorting in Read-Only Grids Enabled**
	The ability to perform numeric sorting in columns of read-only grids has been enabled in version 6.0.1.

Issue Number	Description
11318*USA	**Fix to Tabbed Screens with Derived, Dependent Multivalues** When tabbed screens contained derived, dependent multivalued data, the screen definition sent to the client for the second and subsequent forms was incorrect, which caused SB/XA to fail. Version 6.0.1 implements a fix that prevents this problem.
11330*USA	**Alignment of Labels in Derived Output Fields** The field labels in derived output fields did not line up correctly with input fields. SBLabel has been modified in version 6.0.1 to center the field label vertically.
11341*USA	**Corrected Behavior of Up Arrow Key in XUI Clients** In SB/XA Browser Client and SB/XA Rich Client, the behavior of the Up Arrow key in the first field of a grid was inconsistent, placing the cursor in various positions in the field depending on where it had been placed prior to entering the grid. This problem has been resolved so the Up Arrow now behaves consistently with the CUA standards for arrow movement.
11351*USA	**Display of Interleaved Multivalues** In version 6.0.0, SB/XA Browser Client and SB/XA Rich Client returned errors on screens with interleaved multivalues. Version 6.0.1 introduces XAML styles for interleaved multivalues, which resolves this issue.
11353*USA	**Add Separator Lines Using a XAML Style** An enhancement in version 6.0.1 enables you to add a separator line between columns of a grid using a XAML style. For an example XAML style that adds a separator between grid columns, see the "Style_Tag_Templates_GA2.txt" item in the XATHEMES file.
11355*USA	**Data in Grids Right- or Left-Justified Based on Type** Data in grid columns was not right- or left-justified based on the data type defined for the field. This issue has been resolved in version 6.0.1 so the data in grids is now justified based on the defined data type: ▪ Alpha: Left-justified ▪ Dates: Right-justified ▪ Monetary: Right-justified ▪ Numeric: Right-justified
11357*USA	**XAML Style to Remove Shadowing** Some users found that a shadowing effect caused the appearance of fields and screens to change in different areas of the form. Using a XAML style to remove the shadowing resolves this issue.
11377*UK	**Safety Margin for Calculating Horizontal Scroll Bar** If a field in a grid was one pixel too wide, SB/XA generated a horizontal scroll bar for the field. A safety margin of one pixel has been built into the horizontal scroll bar calculation in version 6.0.1, so a horizontal scroll bar is no longer generated in this case. However, note that if a field consumes the one-pixel safety margin, the screen layout may yield undesired results.
11383*UK	**Fix for Dragging Resize Arrow of Tabbed Screen** Dragging the resize arrow of a tabbed screen to make the screen larger worked only to a certain limit, when the resize arrow detached from the box. This issue has been fixed in version 6.0.1.

Issue Number	Description
11385*UK	**Default Values Loaded in Input Screens** On certain input screens in version 6.0.0, the fields did not display the default values in SB/XA Browser Client and SB/XA Rich client. This problem has been corrected in version 6.0.1 so the fields are loaded with default values as designed.
11387*UK	**XUI Clients Support Highlighted Text** Code has been added in version 6.0.1 to enable the display of highlighted text in dialog boxes in SB/XA Browser Client and SB/XA Rich Client.
11399*USA	**Remote Process Run within UniVerse Account** Running a remote process from within a UniVerse account returned the error message, "Invalid password". A code fix in version 6.0.1 enables users to run remote processes from within an application account.
11405*UK	**Correction to Names of Second Set of Function Keys** The names of the second set of function keys (such as SF5) were incorrect or missing the "S" in GUI and XUI modes in SBDEMO Maintenance screens in version 6.0.0. This issue has been corrected.
11406*UK	**Shadowing Removed from Field Labels** Shadowing on field labels in non-derived fields appeared untidy. In version 6.0.1, shadowing has been removed from field labels in the default style, except in derived fields and in output-only screens. Users can define their own custom XAML styles for field labels if desired.
11409*UK	**Fix to Correctly Position Multivalue Grids with Side Heading** Multivalue grids with a heading placed at the side were positioned outside the display area in GUI and XUI modes in version 6.0.0. A modification to the output drivers in version 6.0.1 corrects this issue.
11419*UK	**Pressing Enter in Grid No Longer Causes Display Issue** Data in fields in a grid disappeared when the user pressed Enter and reappeared when the user pressed the Up Arrow key. This issue has been resolved in version 6.0.1, so data is no longer removed from the grid display when the user presses Enter to advance to the next row.
11434*USA	**@CNT Returned After Clicking in Grid Row** Clicking in a grid row did not return @CNT for use in a subsequent process call when the C (Controlling), A (No Amend), I (No Insert), D (No Delete), and E (No Append at End) options were set on the controlling field. This issue has been resolved in version 6.0.1.
11435*USA	**Resource File Provided for Each System ID** SB/XA did not provide a global resource file for storing common bitmaps and other image files. Version 6.0.1 implements an xxRESOURCE file for each system ID. A new field in the HK.CONTROL file for the system ID stores the name of the resource file. The xxRESOURCE file must be a directory.
11461*UK	**Corrected Behavior of Navigation Keys in F3 Help** In SB/XA Browser Client and SB/XA Rich Client, the Down Arrow, Up Arrow, Page Down, and Page Up keys did not work correctly in the selection lists presented in F3 help. This issue has been resolved in version 6.0.1.

Issue Number	Description
11462*UK	**Pressing Esc Closes Grids in F3 Help** Pressing Esc did not close grids displayed in F3 help in SB/XA Browser Client or SB/XA Rich Client. This issue has been resolved in version 6.0.1 so Esc closes F3 grids as designed.
11463*USA	**Modifications to Behavior of X Button in Client Window** In version 6.0.1, the behavior of the X button at the top of the SB/XA Browser Client and SB/XA Rich Client has been modified so it is subject to user preference. A new field has been added to /USER.FLAGS, allowing the user to specify whether the X button escapes to the previous menu or closes SB/XA.
11476*USA	**Vertical Menus No Longer Overlay Button Bar** The button bar was overlaid by type 1 menus in SB/XA Browser Client and SB/XA Rich Client in version 6.0.1. Vertical menus are now positioned so they are relative to the form layout area under the button bar in SB/XA Rich Client, and so they are centered in the form area in SB/XA Browser Client in version 6.0.1.
11478*USA	**Ability to Set Column Headings in Grids** SB/XA did not provide a way to set column headings in grids in version 6.0.0. Users can now set column headings using the "FIELDNAME*label" functionality of the SETATTR function in the same way as setting a field label.
11529*USA	**Validation of Process IDs Entered as Account Restrictions** In Group Security > F5 Restr Accts, SB/XA Browser Client and SB/XA Rich Client did not perform validation when the user entered a process ID as an account restriction and pressed Tab or Enter or clicked into the next row. If the user entered an invalid process ID and pressed F2 to save changes to account restrictions, SB/XA then returned an error. Version 6.0.1 resolves this issue so validation is performed during entry of process IDs in this window.
11535*USA	**Fix to Display Multivalued Fields in a Grid in Group Security Subscreens** In version 6.0.0, multivalued fields in certain Group Security subscreens were not displayed in a grid in SB/XA Browser Client and SB/XA Rich Client. A fix has been implemented in version 6.0.1 so multivalued fields are displayed in a grid in XUI mode, the same as they are in GUI and Character modes.
11552*UK	**Parent Menu Option Highlighted on Escape from Type 1 or Type 2 Menu** When escaping from a type 1 or type 2 menu back to another type 1 or type 2 menu, the parent menu option was not highlighted. The behavior has been corrected in version 6.0.1 so the parent menu option is highlighted as expected.
11553*UK	**Dialog Box to Confirm File Deletion** In SB/XA Browser Client or SB/XA Rich Client, the /FDEL (File Delete) process did not offer a Select Processes for Deletion dialog box to allow users to confirm a file deletion. This issue has been fixed, so the XUI clients display the confirmation dialog box as expected in version 6.0.1.
11617*USA	**Pressing Esc in Input Fields of Multipart Key Displays Values in XUI Mode** When working with input screens in XUI mode, pressing Esc in the input fields of a multipart key did not display the values. A code fix corrects this problem in version 6.0.1 so the values are displayed in XUI mode the same as they are in GUI and character modes.

Issue Number	Description
11619*USA	**Fix to Prevent Input String Error in /PD.O Process** When using a multi-part key built from a work field in an output process (/PD.O) with @REFRESH=2 in the Process Before slot of the second part of the key, SB/XA returned an error message, "A problem occurred parsing a server message. Input string was not in a correct format." The /PD.O process has been fixed so it works like the PD.I process, and the error no longer occurs in this situation.
11625*USA	**Calling Remote Process from Phantom No Longer Fails** Calling SB.REMOTE.PROCESS from a phantom process failed, returning the error message, "Access denied." A code change in version 6.0.1 prevents this problem.
11631*USA	**Clients Now Handle @REFRESH in Process After Read Slot** In the screen designer (/SD), placing @REFRESH=2 or @REFRESH=-2 in the Process After Read slot resulted in an error and caused the client to become unresponsive. This issue has been resolved in all clients (Character, GUI, and XUI modes) in version 6.0.1.
11669*USA	**SELECT Statement Is Not Interpreted as Process ID** In versions 5.3.4 and later, if a paragraph process contained a SELECT statement and the Multilanguage option was On, SB interpreted the SELECT statement as a process ID and attempted to read the process. This issue has been fixed in version 6.0.1.
11681*USA	**Corrected Label of Data Server Credentials Group Box** Fixed the label of the Data Server Credentials group box in the Connect to Application > Options > General tab in SB/XA Browser Client and SB/XA Rich Client.
11727*AUS	**Fix for Problem with Corrupt Multivalues in QRD Reports Output to Excel** In versions 5.4.2 and later, QRD reports that were output to Microsoft Excel could contain corrupt multivalues if the last multivalued fields in the data were null. In some cases, the null values were replaced with the last non-null value. This issue has been resolved in version 6.0.1 so multivalues are no longer corrupted in QRD output to Excel.
11735*USA	**Display of Multilanguage Grid Headings** Multilanguage grid headings were not displayed when running a screen in an alternate language if the "Display Prompt" for the field was set to "N" in versions 5.4.2 and later. This issue has been resolved.
11818*USA	**Correction to /TRANSLATE Function** Fixed an issue with the /TRANSLATE function that caused data corruption when translating GUI field labels in a grid.
11834*USA	**Fix to Prevent Function Key from Displaying on Action Bar** If a function key was defined to call the TOGGLE or ACTION process, the function key was displayed on the action bar in SB/XA Browser Client and SB/XA Rich Client. A modification to action bar parsing in version 6.0.1 prevents function keys with the TOGGLE or ACTION process from being displayed as a button on the action bar.
11835*USA	**Correction to Display Action Bar in XUI Screens** The action bar did not appear in all screens in SB/XA Browser Client and SB/XA Rich Client in version 6.0.0. A fix has been implemented in version 6.0.1 to correct this problem.

Issue Number	Description
11837*USA	**Issue with Interleaved Multivalues Displaying in Grid when Option Was Turned Off** In GUI mode, interleaved multivalues were displayed in grids even when the grid option was switched off in /SB.PARMS. Due to this issue in GUI mode, multivalues were also displayed in grids in XUI mode. The code has been amended in version 6.0.1 to prevent this problem.
11899*USA, 38304*USA	**Output to Screen with XPS Viewer** In version 6.0.1, output from Report Writer, QRD, and TU.SEND.TO.PRINTER can be viewed on screen in SB/XA Browser Client or SB/XA Rich Client. The new viewer implemented in the SB/XA Presentation Components is built on Microsoft's XPS Viewer technology and uses standard Windows controls. XPS printing allows users to modify the font size so the output fits within the screen display area. Users can also print the output to any printer that is defined on the client computer, even if the printer is unknown to SB/XA Application Server or SB/XA Communications Server. For further details, see the *SB/XA 6.0.1 New Features* manual.
11954*USA	**Page Down/Page Up Functionality in F3 Help** If an F3 intuitive help list in XUI mode was long enough for Page Down/Page Up usage, the focus on the field did not always stay on the screen, and the active line was not always shown on the page. This issue has been resolved in version 6.0.1.
11959*USA, 37746*USA	**XAML Styles for Interleaved Multivalues** SBClient 6.0.0 and earlier support two types of grids: (1) the standard grid and (2) a quasi grid invoked by specifying the G option in the /SD (Screen Designer) > F5-Enter Field > Control (Controlling multivalue) field. At version 6.0.1, SB/XA Browser Client and SB/XA Rich Client support XAML styles for interleaved multivalues, which offer the same flexibility as the G-option grid. For this reason, SB/XA Browser Client and SB/XA Rich Client no longer support the G option as of version 6.0.1. For further information about XAML styles for interleaved multivalues, see the *SB/XA 6.0.1 New Features* manual. In parallel to the introduction of XAML styles for interleaved multivalues in the XUI clients, the code in version 6.0.1 has been enhanced to support multiple G option grids in GUI mode. This gives GUI screens the same capability to display interleaved multivalues as in XUI mode.
11967*USA	**Issue with Title of Multivalue when Display Prompt Is "S"** When a multivalue field has a Display Prompt of "S", and the data area is moved below the title, the title will not display. This does not occur if the Display Prompt is set to "A", and we recommend using the "A" setting in this situation.
11975*USA	**Check for BUILTIN Administration Group on Non-English Windows Systems** When setting up SB/XA administration details on a Windows computer, SB/XA performs a check to see if the user is a member of the BUILTIN\Administrators group. The name of that group is different on non-English Windows operating systems, so users of those operating systems were unable to enter administration details. A fix has been implemented in version 6.0.1 so SB/XA also checks for the user under the name of the BUILTIN administration group in non-English languages.

Issue Number	Description
11997*USA	**Compiled Code in /PD.I and /PD.O Processes No Longer Supported** As of version 6.0.1, SB/XA no longer supports the use of compiled code in the /PD.I and /PD.O processes. If the user attempts to runs an input or output process that calls compiled code, a message warns that the code will run in interpreted mode. Also, if the user attempts to compile code in an input or output process, a warning is displayed.
12036*USA	**Display of Buttons in Output Screens** Output (/PD.O) screens did not correctly display OK, Prev, and Next buttons in GUI or XUI mode. A fix in version 6.0.1 corrects the problem so these buttons are displayed on output screens as designed.
12044*USA	**Fix to Scroll Bars in /PD.O Screen** Scroll bars in the /PD.O screen did not work correctly in XUI and GUI modes in version 6.0.0. This issue has been corrected in version 6.0.1.
12049*AUS	**Steps to Configure SB/XA Communications Server for Cross-Domain Logons** After initially installing SB/XA Communications Server, you may need to configure the software to enable cross-domain logons. This additional task is required only if users on client PCs need to connect to SB/XA Communications Server from a domain outside the Windows domain of which SB/XA Communications Server is a member. The instructions for configuring cross-domain logons were formerly in Chapter 3, "Installing SB/XA Components on Windows" of *SB/XA Getting Started*. Since many customers do not need to perform these steps, they have been moved to Chapter 7, "Configuring and Managing SB/XA Communications Server" so they are outside the main flow of required installation and configuration tasks.
12058*USA	**Fix to Hot Key Characters** If you used a character as a hot key in menus and the character was not part of the description of the menu line item, SB/XA Browser Client and SB/XA Rich Client produced an error.
12084*USA	**Menu Options Unavailable when Submenu Is Open** In previous versions, if a user changed screens in XUI mode by selecting an option from a Type 1 menu, the selections on the original menu still appeared to be available. This issue has been resolved, and menu options are now grayed out when a submenu is open.
12115*USA	**Modify Process Returns the Correct Process ID** When working in SB/XA Browser Client or SB/XA Rich Client, if you selected a menu option and ran the Modify Process (/MP) on this option, SB/XA returned the process ID of the last-executed menu option. This issue has been fixed so /MP returns the process ID of the selected menu option.
12122*UK	**Blank Lines No Longer Inserted in Data from DOS File Transfer** On Windows only, when passing data to a Windows application via a DOS file transfer, blank lines were inserted in the resulting file. This issue has been resolved in version 6.0.1.
12144*USA	**Fix to Label Alignment Attribute** If you defined a label in GUI mode as centered or right- justified, the same label was displayed left-justified in XUI mode. A code fix in version 6.0.1 correct this issue so the alignment attribute is applied correctly in XUI mode.

Issue Number	Description
12148*USA	**Issue with SROC.LOG File Pointer Resolved** In the UniData version only, the SROC.LOG file pointer was not created when upgrading an account from version 5.4.x to version 6.0.0. A fix has been implemented in version 6.0.1 to correct this problem.
12186*USA	**Fix for Menus without a Parent** If you changed the SBSYSMENU to a type 2 menu, the menu was not displayed in SB/XA Browser Client or SB/XA Rich Client. A fix has been implemented in version 6.0.1 to correctly parse the code of menus without a parent. In addition, the top-level menu now contains a Systems option, which provides a list of the available systems, the same as in GUI.
12237*AUS	**Steps for Enabling Application Connections without Single Sign-On** If Single Sign-On was not enabled for a user, SB/XA did not allow the user to log to any application other than the SB admin (SA) account. This issue has been corrected in version 6.0.1 so users without Single Sign-On can access systems in any application with connections enabled. For instructions on setting up the user's application connections with or without Single Sign-On, see Chapter 6, "Setting Up Application Connections and Configuring Clients," in *SB/XA Getting Started*.
12245*USA	**Fix to Make F3 Help Columns Sortable in XUI Mode** In version 6.0.0, the columns in F3 intuitive help were sortable in GUI mode, but not in XUI mode. Clicking on an F3 column heading had no effect in the XUI clients. A fix resolves this issue in version 6.0.1, so F3 help columns can be sorted in SB/XA Browser Client and SB/XA Rich Client as expected.
12250*USA	**/GC Uninitialized Variable Error Prevented** Running /GC to generate source code for a report with the "D" output device produced an uninitialized variable error. This issue has been resolved in version 6.0.1.
12269*USA	**Drill Down Option Fixed** The F6-Drill Down option within a selection process caused SB/XA Browser Client or SB/XA Rich Client to fail. This issue has been corrected in version 6.0.1.
12309*USA	**Support for Sorting in G-Option Grids** Prior to this release, G-option grids in an output process were not sortable. This issue is resolved in version 6.0.1.
12313*USA	**Correction to Sizing of Grid Columns** In XUI mode, the grid columns all appeared to be the same size, regardless of their settings. This issue has been fixed, and all columns now appear correctly.
12328*USA	**Fields No Longer Overlap Raised Box** In XUI mode, some of the fields overlapped the raised box area on the XUI screen. This issue has been resolved and all fields now appear correctly.
12330*USA	**Error in Calling Subroutine from Shell Process** In previous versions, calling a subroutine from a shell process sometimes caused an error to occur if the subroutine was called from the menu. This issue is fixed in version 6.0.1.
36505*USA	**Expiration Date Field Added in License Info Screen** An Expiry Date field has been added to the Display License Info screen (/LICENCE.INFO) to display the expiration date of the SB/XA license.

Issue Number	Description
36712*USA	**New Parameter Supports Global Themes File**
	In version 6.0.1, the HK.CONTROL file and SB.PARMS file have been modified with a new parameter to support a global themes file. The global themes file allows you to store styles and themes for use in multiple SB applications. When compiling or downloading screens, if a theme is not found in the xxTHEMES file for the system ID, SB/XA searches for it in the global themes file.
37188*USA	**Focus on Secondary Menus**
	In the SB admin account, secondary menus were displayed but were not given focus. For example, if you ran the /TM process to open the Tools Menu, and then selected File Create/Delete, the secondary menu was displayed, but the cursor was not positioned in it. In version 6.0.1, focus is placed on the first option of the selected secondary menu.
37240*USA	**Fix for Tag Functions in F3 Help**
	In SBDEMO screens, the Tag functions in F3 intuitive help screens were not working as designed in XUI or GUI mode; pressing F5 (Tag) or F9 (Tag All) had no effect. This issue has been fixed in version 6.0.1.
37247*USA	**Correction to Behavior of Radio Buttons in Parts Review Screen**
	When working in the SBDEMO Car Rentals (CH) application Enquiries > Car Parts option in SB/XA Browser Client or SB/XA Rich Client, the radio buttons in the Parts Review screen were not disabled as expected after selecting a Part No record. The behavior of the radio buttons has been corrected in version 6.0.1 so the buttons are disabled after the form is populated with the selected record.
37427*USA	**Toolbars Download Is No Longer Case-Sensitive**
	In the UNIX versions for UniData and UniVerse, toolbars did not download correctly because the toolbar file transfer utility looked for case sensitivity in the file name. This issue has been resolved in version 6.0.1.
37499*USA	**Cut, Copy, and Paste Buttons Reinstated in SBDEMO**
	In the SBDEMO account in version 6.0.0, the Cut, Copy, and Paste buttons on the toolbar were nonfunctional. A code fix resolves this issue in version 6.0.1.
37500*USA	**Fix to Execute Double-Click Process in GUI Click Process Slot**
	In version 6.0.1, SB/XA Browser Client and SB/XA Rich Client did not execute the double-click process specified in the /SD F5 > F6 GUI Click Process slot. This issue has been addressed so the double-click process is executed as expected.
37503*USA	**Correction to F3 Search Options**
	In the Car Rental > Maintenance > Cars > Car Maintenance screen of the Car Rental System in SBDEMO, the F3 > Search > Forward/Backward/Repeat search options did not work in version 6.0.0. This has been fixed in version 6.0.1.
37595*USA	**ToolTips Help Added for Toolbars**
	ToolTips help was not implemented for toolbars in version 6.0.0. ToolTips are now available when hovering over the buttons on all SB/XA toolbars.
37802*USA	**Client Now Processes Logon Data**
	If the user did not enter the operating system user ID or password during logon and then pressed the Enter key, SB/XA failed to respond. The Enter key attempted to send data to SB/XA Application Server instead of processing it locally. The code has been changed so the client processes the logon data locally.

Issue Number	Description
37826*USA	**Fix to Call Change Password Screen in GUI and XUI Modes** The Change Password screen, which is accessed from User Flags > F9-Password, did not work in GUI or XUI mode in version 6.0.0. This issue has been fixed in version 6.0.1, so the Change Password screen again works as designed.
38018*USA	**Totals in Fixed Footer Row of Grid** SB/XA 6.0.1 implements the ability to place a derived totals field in the fixed footer row of a grid. For information about adding a totals field in the footer row, see the *SB/XA 6.0.1 New Features* manual.
38085*USA	**License Details Not Copied in Upgrade** At version 6.0.1, license details are no longer copied when upgrading SB/XA Application Server. You must enter license information after performing an upgrade.
38097*USA	**Line Numbers Added in Edit Values Screen** An enhancement to the screen editor (/SE process) in SB/XA 6.0.1 adds line numbers in the Edit Values screen, which enables users to edit specific values of a multivalued attribute.
38136*USA	**Fix for Return Value in TU.CHECK.APP** TU.CHECK.APP did not return a value of 1 when the application was running in SB/XA Browser Client or SB/XA Rich Client. This function has been fixed in version 6.0.1 so it returns a value of 1 when the application is running in either client. However, note that TU.CHECK.APP is only able to find an application if it has an entry in the Registry.
38137*USA	**TU.CLOSE.APP Now Closes Applications Correctly** TU.CLOSE.APP did not work correctly to close applications in Version 6.0.0. A change to the BASIC code has been implemented in version 6.0.1 to correct the behavior of TU.CLOSE.APP to close applications as designed.
38161*USA	**Issue with Clear Local Cache Button Resolved** After configuring the Communications Server Connection from SB/XA Browser Client or SB/XA Rich Client, clicking the Clear Local Cache button in Options > Client Configuration did not clear the Communications Server details. This button now clears the server details from the local cache, as designed.
38165*USA	**Closing Clients Locked SB/XA Communications Server .log Files** In version 6.0.0, on closing SB/XA Browser Client or SB/XA Rich Client, an internal function of the client was not always called to disconnect from SB/XA Application Server. As a result, the .log files created by SB/XA Communications Server in that session remained locked and could not be deleted. The internal function call in the client has been corrected to prevent the problem in version 6.0.1.
38189*USA	**Create Account Option Disabled in XUI Clients** In SB/XA Browser Client and SB/XA Rich Client, the Create Account option opened a character screen. This option has been disabled in the new clients until support for a XUI version of the Create Account feature is available in a future version.
38190*USA	**Selecting Admin Menu in New Account No Longer Produces Error** In a newly created account, selecting the Admin menu resulted in an error in version 6.0.0. This has been fixed.

Issue Number	Description
38195*USA	**Entry of Variables in Runtime Option "?Wn" Is Enabled in XUI Clients** In SB/XA Browser Client or SB/XA Rich Client, if a screen with selection criteria contained a runtime option "?Wn" in the selection process, the screen opened but did not allow entry of details. This issue has been resolved in SB/XA 6.0.1, so "?Wn" runtime variables are processed as designed and now work the same as in SBClient.
38196*USA	**Dialog Box to Verify Removal of Component Now Closes Properly** If you install SB/XA Communications Server and subsequently run the installation program, a dialog box opens with the message "Do you want to completely remove the selected application and all its features?" In version 6.0.0, a response of "No" did not close the dialog box. The installation program has been fixed, so selecting "No" closes the dialog box in version 6.0.1.
38223*USA	**Selecting PDF Option in /PD.R No Longer Results in Error** If you selected the PDF option in a Report Writer definition (/PD.R), an error occurred in both SB/XA Browser Client and SB/XA Rich Client. A change has been implemented in the XUI drivers in version 6.0.1 to correct the problem.
38233*USA	**Fix to Prevent Fatal Error in Action Bars Option** The Tools > Other Tools > House Keeping > Default Function Keys/Action Bars option caused a fatal error in both SB/XA Presentation Components (SB/XA Browser Client and SB/XA Rich Client) and also in SBClient. This issue has been resolved in version 6.0.1.
38255*USA	**Security Audit Reports Now Available on UNIX Servers** The security audit reports were not available on UNIX in SB/XA version 6.0.0 for UniData and UniVerse. These reports are supported on UNIX servers in version 6.0.1.
38259*USA	**UniData Create File Option Corrected to Open Same Screen as /FC** In the UniData version only, the Admin > Files > Update Processes > Create File option opened a different screen than the /FC process call. This issue has been corrected in SB/XA 6.0.1 so the Create File option calls the FC process and opens the same screen.
38284*USA	**Correction to Default Location of .log Files** Instructions in Chapter 3 of the *SB/XA Getting Started* manual for deleting .log files before installing SB/XA components contained an incorrect path for the default location of old .log files. On page 3-4, the default location of the SB/XA Communications Server .log files should be C:\Documents and Settings\LocalService\Application Data\IBM\SBXALogs\ComServer. The default location of the SB/XA Presentation Components .log files should be C:\Documents and Settings\<<UserName>>\Application Data\IBM\SBXALogs\Client. Note that you must first change your settings in Windows Explorer to show hidden files and folders. The manual has been corrected.
38326*USA	**Style Changed in TOGGLE2 Field** In the TOGGLE screen contained in the XAML.EXAMPLES file, we have removed the XAML code for "RoundToggleStyle" from the TOGGLE2 field and set the GUI property style to "mscircle". This alters the appearance of the toggle in version 6.0.1.
38330*USA	**B:SH.TERM.S,12 Porting Issue Resolved** Version 6.0.1 fixes a porting issue that makes it no longer necessary to run the B:SH.TERM.S,12 process after installing SB/XA Application Server.

Issue Number	Description
38338*USA	**Fix Enables Ability to Save Changes in /SEC.GROUP.SETUP** In Group Security Setup (/SEC.GROUP.SETUP), an issue with the screen drivers in version 6.0.0 prevented the ability to save changes to the group security record, so it was not possible to set restrictions to limit menu access or inhibit process calls for a group. With changes to the driver code, the group security record can be saved as normal in version 6.0.1.
38472*USA	**Support for Device Licensing** SB/XA version 6.0.1 implements device licensing that supports the device licensing on the U2 data servers. When a user connects from SB/XA Browser Client or SB/XA Rich Client to SB/XA Communications Server, the client passes along its credentials to SB/XA Communications Server. SB/XA Communications Server then connects to the U2 data server and passes the client credentials to the U2 data server. Device licensing allows you to run multiple sessions from a single client computer, consuming only one data server license and one SB/XA license.
38499*USA	**/TH.I Process Checks for Case-Sensitivity of Theme Name** The Upload and Compile Theme (/UCT) process did not check case-sensitivity of the theme name when reading records in xxTHEMES in version 6.0.0. A modification to the /TH.I process, which replaces /UCT in version 6.0.1, implements case-sensitivity when reading records in xxTHEMES.
38565*USA	**Fix for Issue with Paging Up or Down in Grid** In version 6.0.0, it was not possible to page up or page down in a grid without first clicking into the white space of the grid (which removed focus from fields of the grid). This issue has been resolved in version 6.0.1 so you can click, tab, or press Enter to place focus in a grid and page up or page down as expected.
38585*USA	**Modification to C# Classes** In version 6.0.1, the C# classes have been modified so they no longer require the use of triggers in writing styles.
38603*USA	**Fix to Maintain Focus in Process ID Window** If the user selected a type 1 menu and entered "/" at any prompt, the Process ID window appeared as expected, but focus returned immediately to the menu rather than staying in the Process ID window. This issue has been corrected in version 6.0.1.
38620*USA	**Communications Server Configuration Screen Now Placed at Top of Stack** When running the SB/XA Communication Server Configuration from an application screen, the screen that you were using disappeared and would not reopen. This issue has been fixed so the configuration screen is placed on the top of the stack, above the current screen.
38691*USA	**Drawable Attribute Implemented in XUI Clients** The ability to use a drawable attribute to hide a column or field has been implemented in the new clients in version 6.0.1 using the "FIELDNAME*label" or "FIELDNAME" syntax of the SETATTR function.
38749*USA	**TU.SEND.TO.PRINTER Supports Aux Printing in XUI Mode** The TU.SEND.TO.PRINTER function has been enhanced to support auxiliary (Aux) printing from SB/XA Browser Client and SB/XA Rich Client. The user can define the Aux printer as the XPS printer, so this enhancement enables the ability to print TU.SEND.TO.PRINTER output to screen using the XPS printer.

Issue Number	Description
38815*USA	**Enhancements to Implementation of XAML Themes and Styles**

▪ Before SB/XA can load and use a XAML theme, you must create a theme definition. To do so, use the Theme Definition (/THEME.DEFN) tool. For details, see the *SB/XA New Features* manual.

▪ The names and functionality of two theme processes have changed in version 6.0.1. The /TH.C process replaces the Compile Theme (/CT) process, and the /TH.I process replaces the Upload and Compile Theme (/UCT). For further information, see the *SB/XA New Features* manual.

▪ In the ISBField in XAML code, the Scrollbar property has been changed to ScrollBar.

▪ The UIController property has been removed from SBForm. The SBPlus property should be used instead.

▪ VerticalMenuTemplate, HorizontalMenuTemplate, and NestedMenuTemplate have been added to SBMenu in order to eliminate the need for a trigger to test for the menu type in user styles.

Previously the code to change the template for a type 5 menu was:

```
<Style x:Key=TreeMenuStyle
       BasedOn="{StaticResource BaseSBMenuStyle}"
       TargetType="{x:Type SBC:SBMenu}" >
  <Style.Triggers>
    <!-- ********************************** -->
    <!--     turn type 5 menu into a tree    -->
    <!-- ********************************** -->
    <DataTrigger Binding="{Binding Path=MenuDefinition.MenuType,
                           RelativeSource={RelativeSource Mode=Self},
                           Converter={StaticResource SBMenuTypeConver
                           Value="HorizontalWithLinkedSubMenus">
      <Setter Property="Template"  Value="{StaticResource TreeMenuTempl
    </DataTrigger>
    </Style.Triggers>
</Style>
```

Now the code to change the template for a type 5 menu is:

```
<Style x:Key="TreeMenuStyle"
       BasedOn="{StaticResource BaseSBMenuStyle}"
       TargetType="{x:Type sbc:SBMenu}" >
    <Setter Property="NestedMenuTemplate"
            Value="{StaticResource TreeMenuTemplate}" />
</Style>
```

▪ In the SBControl style, the SBStyleName property is now inherited from the AttachedDependency property. We have removed the DependencyProperty from the SBContentControl, SBXGridControl, and SBToolBar styles.

▪ Switching of themes has been improved so the new theme is now applied immediately. This is particularly noticeable if you have changed the layout of the main window or the style on a menu.

▪ The SBToolbar style has been renamed SBToolBar.

Issue Number	Description
38816*USA	**New Cache for Client Forms** A cache for forms was added in version 6.0.1 to improve the client's performance in retrieving and displaying forms. Users can specify the maximum number of forms to be cached by setting a parameter in the Client Configuration form. By setting the number of forms cached to 0, the cache is disabled.
38817*USA	**Enhancements to Upgrade Grid Support** ▪ SB/XA 6.0.1 has upgraded to version 3.0 of the Xceed DataGrid for Windows Presentation Foundation (WPF). ▪ The Client Configuration form has been enhanced to use a grid.

38818*USA	**Enhancements to Improve .NET Integration Capabilities**
	
	▪ SB/XA 6.0.1 enables users to create and interact with .NET types.
	
	To support this functionality, the assembly name, which references an assembly definition, has been added to the User Class Registration (UCR) form. This form also contains a prompt to specify the tier in which the .NET type is to be created.
	
	A new assembly definitions (/ASD) process allows you to define and upload a .NET assembly. Before an assembly can be used, the definition must exist and the assembly must be uploaded. If a class exists in an SB/XA assembly, the assembly name SBShared, SBRuntime, or SBControls can be used.
	
	▪ A new variable, @SBHANDLER, has been added. This variable is supported in XUI mode only.
	
	▪ Version 6.0.1 implements the ability to execute commands in .NET. For example:
	
	<pre>LOCAL HANDLE, RESULT
	STR.VAL = "string"
	HANDLE = OBJCREATE("TEST.NET",@FORM,"TestObject","PropertyOne","ValueC
	IF HANDLE # "" THEN
	   DISP 3, "Object 1 created with handle ":HANDLE
	* Test execute command
	     RESULT = GETATTR
	("@SBHANDLER","(SBExecuteCommand,DisplayFormCommand,":HANDLE:",SB.HAND
	     DISP 3, "RESULT after setting TestMethod1: ":RESULT
	* Destroy the object
	   RESULT = OBJDESTROY(HANDLE)
	   IF RESULT # 1 THEN
	      DISP 3, "Object was not destroyed : ":RESULT
	   END
	ELSE
	   DISP 3, "Object was not created."
	END</pre>
	▪ New subroutines SB.WAIT.ON.INPUT() and SB.PROCESS.EVENT() have been added, enabling SB/XA Application Server to put user objects into an event loop.

38819*USA	**Enhancements to the .NET Framework Infrastructure** ▪ The namespace of the .NET Framework assembly that is a collection for XAML controls has been changed from http://schemas.IBM.SBPLUS.com/winfxControls to http://schemas.IBM.SBPLUS.com/WPFControls. ▪ At version 6.0.1, SB/XA has upgraded to Microsoft .NET Framework 3.5 Service Pack 1.

Issue Number	Description
38859*USA	**Regenerate Expressions Prompts Accept Lowercase Entries** In the Regenerate Expressions dialog box, the Regenerate 'Global' Expressions and Quiet Mode text boxes did not accept a lowercase Y or N. The code has been amended so entries can be made in uppercase or lowercase in these text boxes.
38877*USA	**Pressing Esc Closes Process ID Window in XUI Clients** After entering '/' to open the Process ID prompt in SB/XA Rich Client or SB/XA Browser Client, pressing the Esc key to cancel this action did not close prompt window as expected. This behavior has been corrected.
38881*USA	**Description Added to F3 Help for Application Name Field** In the Application Setup screen, the F3 help for the Application Name field did not provide a description of each existing application in the list. In SB/XA 6.0.1, a description of the application has been added in F3 help for this field.
38886*USA	**Fix to U2 Administration Server Password Text Box** When setting up Single Sign-On on SB/XA Browser Client or SB/XA Rich Client on Windows Vista, the U2 Administration Server Password text box in the SB/XA Administration Server Configuration dialog box was displayed at half of its normal height. This issue has been fixed in version 6.0.1.
38895*USA	**Office > Diary Option Displays Informational Message** The Office > Diary feature has not yet been implemented in SB/XA; it may be available in a future version. When the user selects the Office > Diary option in version 6.0.1, SB/XA displays an informational message stating that the feature is currently not implemented.
38897*USA	**Paragraph Data No Longer Duplicated** When creating a paragraph in version 6.0.0, if you pressed F3 on a new line, selected the Assign option from the menu, and then pressed the Esc key from the screen used to build the assignment statements, all of the paragraph data was duplicated. This issue has been resolved in version 6.0.1.
39001*USA	**Copy Button Added in SB/XA Error Message Window** With this enhancement, a Copy button has been added in the SB/XA Error Message window, allowing users to copy the details of an error message to a text file created in an external application such as Notepad.
39029*USA	**Display of Host Library Version** When running the /SB.INFO process in SB/XA Browser Client or SB/XA Rich Client, the Host library information field displayed a question mark. This issue has been resolved in version 6.0.1, so /SB.INFO displays the host library version and build number in XUI mode, as expected.
39085*USA	**Fix for Issue with SROC.LOG Pointer** In SB/XA for UniData, the UPDATE.ACCOUNT process created a bad SROC.LOG pointer that incorrectly led to SB.DEFN. Subsequently running LIST SROC.LOG on the account resulted in an open failed message. A fix in version 6.0.1 corrects this issue.
39128*USA	**Help for Valid Applications Field in Application Access Setup** In User Security Setup > F9 Single Sign-On, the F3 help for the Valid Applications field did not provide a description of each existing application in the list. A description of the application has been added in F3 help for this field in version 6.0.1.

Issue Number	Description
39132*USA	**Blink-Formatted Text Displayed in Balance Field** In the /CUST.ENQ (Customer Enquiry) screen of the Car Rental (CH) application in SBDEMO, the Balance field contained an escape sequence instead of displaying the balance using blink-formatted text when running the UniData version of the product on Windows or Linux. A fix corrects this problem in version 6.0.1.
39161*USA	**Validation Checking for Duplicate Application Names** If a user defined duplicate application names within the same SB instance in /SEC.USER.SETUP > F9 - Single Sign-On, the user was unable to log on in the XUI clients. The client displayed the error, "Failed to get the list of applications from the SB/XA Communications Server [hostname] on port [nnnn]. An item with the same key has already been defined." In version 6.0.1, the F9 - Single Sign-On option runs validation checking to prevent the user from defining duplicate application names within the same instance, precluding the issue at logon.
39192*USA	**SBDEMO Reports No Longer Send Control Characters** When running an SBDEMO report in character or GUI mode in version 6.0.0, the report sent control characters that affected the display of menus in character mode and sent a message to the screen at the end of the report in GUI mode. This problem has been resolved in version 6.0.1.
39216*USA	**Vertical Lines Display Properly in XUI Clients** In the screen designer (/SD), when a vertical line was painted on a screen in character mode or when a character that looks like a vertical line was created using a separator class in GUI mode, the vertical line was displayed as the horizontal "-" character when running the screen in XUI mode. This problem occurred if the Screen Parameters > F6-GUI Params > Link Char to GUI Field Positions option was set to R (Rebuild). The code has been amended to display a vertical line in SB/XA Browser Client and SB/XA Rich Client in version 6.0.1.
39269*USA	**Fix to Initiate New System** In the Car Rental (CH) application of the SBDEMO account, the /ADMIN > SB+ Setup > Initiate New System option did not execute the system initiate routine when running the UniData version of the product on an AIX or Linux platform. On selecting this menu item, the cursor returned to the main menu. This issue has been resolved in version 6.0.1 so this option initiates the new system as designed.
39311*USA	**List Available Disk Space Now Displays Correct Value** In SBDEMO, the SB+ > Admin > System Enquiries > List Available Disk Space option returned a value that was approximately two times larger than the actual amount of available disk space. This issue has been resolved in version 6.0.1 so the List Available Disk Space option returns the correct value.
39674*USA	**Keyboard Buffering Disabled by Default in SB/XA Browser Client** In SB/XA Browser Client version 6.0.1, buffering of keyboard entries has been disabled by default. The architecture of the Browser Client does not support the ability to buffer keystrokes typed ahead in the same manner as SB/XA Rich Client.

Issue Number	Description
39704*USA	**Version 6.0.1 Exclusions and Limitations**
	Following is a list of exclusions for SB/XA 6.0.1:
	Future functionality
	Future releases of SB/XA include plans for the following features. These features are not included SB/XA 6.0.1.
	▪ HTML Reports (Planned for 6.0.2 release)
	▪ .NET control integration (Planned for 6.0.2 release)
	▪ ActiveX support (Planned for 6.0.2 release)
	▪ Integration with Microsoft Office (Planned for 6.0.2 release)
	▪ MAPI API (Planned for 6.0.2 release)
	▪ Internationalization (Unicode) (Planned for 6.0.2 release)
	▪ VBScript (Not currently planned)
	▪ Graphs (Not currently planned)
	▪ Matrix definitions (Not currently planned)
	▪ SB Calculator (Not currently planned)
	▪ Screen Designer (Use SBClient 6.0.1 screen designer with SB/XA 6.0.1)
	▪ Report Designer (Use SBClient 6.0.1 screen designer with SB/XA 6.0.1)
	Known limitations of SB/XA Browser Client vs. SB/XA Rich Client
	The F4 and F10 function keys are intercepted by the Browser Client before SB/XA can process them. The "X" (Close) button in the SB/XA Browser Client Window closes the Browser Client without updating the server (much the same as F-keys). Keyboard buffering is disabled by default in SB/XA Browser Client due to the restrictions of its architecture, as detailed in 39674*USA above.
	Obsolete
	The following items are not included in SB/XA 6.0.1 and will not be included in subsequent version:
	▪ DDE API – Use SBClient 6.0.1
	▪ MPX in EN mode – Use SBClient 6.0.1
	▪ SBCOM – Use SBClient 6.0.1
	▪ Character mode TCL/ECL – Use SBClient 6.0.1 as console
	▪ SBClient Scripting – Use SBClient 6.0.1
	▪ SBClient SmartQuery – Use QRD
	▪ DataC objects – Use SBClient 6.0.1
	We do not plan to implement SBOPEN commands in SB/XA. The SBH.RUN.COMMAND attribute is dependent on SBOPEN, and therefore it is not supported by SB/XA.
	We do not anticipate implementing the following for TUBP:
	▪ TU.FILE.MANAGER
	▪ TU.FORM.PAINTER
	▪ WINEDIT
	▪ TU.DDE.CONNECT
	▪ TU.DDE.DISCONNECT
	▪ TU.EXEC.MACRO
	▪ TU.DDE.GET.ERROR

Issue Number	Description
39717*USA	**Correction to Behavior of Unlimited License Flag in Logon** In version 6.0.0, the unlimited license flag did not bypass the ps-ef call in the logon process. The code in version 6.0.1 has been modified to correct this issue.
39784*USA	**SB/XA Admin Account Field Default Changed** In the Application Setup screen (/APPLICATION.SETUP),, the default value for the SBXA Admin Account field has been changed to N (No) in version 6.0.1.
39841*USA	**Use of Local Storage by XUI Clients** The SB/XA Presentation Components (XUI clients) use local storage to cache bitmaps and server definitions. If you previously installed the SB/XA Presentation Components, you may want to delete the local storage folder for the currently installed version to free up disk space before installing a new version. To find the location of the local storage folder for the currently installed version, open SB/XA Browser Client or SB/XA Rich Client and select Options > Client Configuration. In the SB/XA Client Configuration window, the local storage folder is displayed in the Application Data Path field.
39873*USA	**Deleting an Application Now Removes Associated Password** Deleting an application from the Valid Applications list in /SEC.USER.SETUP (User Security Setup) > Single Sign-On did not remove the password associated with the account. When attempting to connect to the next application in the list, SB/XA prompted the user to enter the user name and password. The code has been corrected so that when the user deletes an application, the associated password is also deleted, and the Single Sign-On feature works for other applications as designed, without prompting for a user name and password.
39900*AUS	**Commit Fail Process Is Fixed** The entry in the "Commit Fail Process" process slot in a subscreen of the SB+ > Tools > Process Definitions > File Update option was converted to uppercase after pressing Enter. This has been fixed in version 6.0.1.
39902*AUS	**Form Painter and Report Designer Options Disabled in XUI Clients** In the /PD.I and /PD.O processes, the F8 option no longer attempts to open the Form Painter in SB/XA Browser Client or SB/XA Rich Client. If the user presses F8, SB/XA displays a message indicating that the screen designer is not available in the XUI clients. In the /PD.R process, the F8 option no longer attempts to open the Report Designer in SB/XA Browser Client or SB/XA Rich Client. Pressing F8 results in a message indicating that this feature is not implemented in the XUI clients.
39903*USA	**Column and Row Coordinates of Character Form Converted to XUI Rendering** When forms are converted from character mode directly to XUI mode in SB/XA 6.0.1, the size of the form, position of fields, and size of objects in the XUI rendering closely corresponds to the column and row coordinates of the character-based form. For further information on conversion of forms from character to XUI, see the *SB/XA 6.0.1 New Features* manual.
39948*USA	**Style to Format Interleaved Multivalues in Standard Grid** SB/XA 6.0.1 supports a new XAML style named SBXInterleavedGridViewStyle to format interleaved multivalues as a standard grid instead of a CardView layout.

Issue Number	Description
39963*USA	**F2 Key Saves Changes in Form Painter** In the Form Painter in GUI mode, users were unable to save changes to the Controlling/Dependent Options screen using the F2 key. This issue has been resolved in version 6.0.1.
39974*USA	**Correction of Issue with Receive and Send Message Options** The Office > Receive Message and Send Message options in SBDEMO did not work in SB/XA Browser Client or SB/XA Rich Client. A fix in version 6.0.1 corrects this problem in the XUI clients.
39975*USA	**Enter Key Enabled in F3 Help** In SB/XA Browser Client and SB/XA Rich Client, version 6.0.1 supports the ability to use the Enter key to select a value in F3 help.
39989*USA	**Escape at Connect to Application Dialog Box** When pressing Esc repeatedly to close SB/XA Browser Client or SB/XA Rich Client, pressing Esc at the Connect to Application dialog box caused the client to fail. This issue has been fixed in version 6.0.1.
40054*USA	**Port Configure Option Fixed** Selecting the Admin > Printers and Terminals > Port Configure option caused SB/XA Rich Client to fail in version 6.0.0. This issue has been fixed in version 6.0.1, so the option opens the Port Configuration screen the same as in GUI mode.
40055*USA	**Fix to Prevent Failure on Selecting OH Process Scope Control** In version 6.0.0, the XUI clients failed when the Admin > SB+ Setup > SB+ Configuration Options > OH Process Scope Control menu item was selected. This problem has been addressed in version 6.0.1 so the OH Process Scope Control screen opens as expected.
40060*USA	**Dynamic Styling with XAML Code Snippets** Version 6.0.1 supports dynamic styling through the use of XAML code snippets. With this feature, you use short segments of XAML code to define the display characteristics of selected elements of the user interface, including labels, display fields, background, and foreground. Examples of XAML code snippets for these elements are available in the XAML Examples (XA) application in SBDEMO. For further information about dynamic styling, see the *SB/XA 6.0.1 New Features* manual.
40129*USA	**Clear Button Added to SB/XA Administration Server Configuration** In the SB/XA Administration Server Configuration screen, a Clear button has been added in version 6.0.1, allowing you to clear the Administration Server details.
40170*USA	**Correction of Issue with Backslash Character in DISP 4 Message** The SB command DISP 4 is called inside a paragraph process to display a message in a dialog box. In version 6.0.0, if a DISP 4 message contained a "\" (backslash) character, SB/XA Browser Client and SB/XA Rich Client cut off display of the message in the dialog box at the "\" character. A fix has been implemented in version 6.0.1 so the message is displayed in its entirety in the XUI clients.
40175*USA	**DISP 4 Command Supports XAML Code in Messages** An enhancement in version 6.0.1 enables the DISP 4 command to include the XAML code from the TERM.DEFN in messages displayed in dialog boxes.

Issue Number	Description
40198*AUS	**Fix Made to System Control Record**
	In GUI mode, if "Use grids for multivalued fields" was set to No in the System Control Record (/HK.CONTROL), but was set to "Yes" in the process definition for a screen, the grid was rendered unusable. A modification to the code in version 6.0.1 now handles these settings so that the grid works as designed.
40341*USA	**Enhancements to RPC.HOSTDEBUG.INFO Program**
	In version 6.0.1, BASIC program RPC.HOSTDEBUG.INFO has been enhanced to improve the usability of the output. The output now includes the attribute number for each value displayed, the field name for each value displayed, and a table of multivalued attributes with attribute number, multivalue position, and field name. In addition, a new SB process named HOSTDEBUG.INFO invokes RPC.HOSTDEBUG.INFO and writes the result to RPC.HOSTDEBUG.INFO.VALUE:@PORT on the file xxWORK, where xx is the two-character system ID.
40382*USA	**TUINSERT File Pointer Created in Upgrade**
	When upgrading SB/XA version 6.0.0, the TUINSERT file pointer was not created. This issue has been corrected in version 6.0.1 so the upgrade process creates the TUINSERT file pointer as designed.
40474*USA	**Support for FONT Attribute**
	The FONT attribute was not implemented in SB/XA 6.0.0. If you entered a FONT attribute for an element in a screen definition, or if you entered a FONT as a set/get attribute, the attribute was ignored. SB/XA 6.0.1 provides support for the FONT attribute, with the following differences from its implementation in SBClient: (1) the underline is available for labels only, and (2) you can set a font on a control without having previously defined the font in the GuiObjectDefinition.
40489*USA	**Fix for Changing Toolbars when Switching Systems**
	If two systems had a toolbar of the same name, switching from one system to the other took extra time to download the toolbar, which was treated as a different toolbar since it had a different timestamp. A change in version 6.0.1 allows you to switch from one system to the other without downloading toolbars of the same name.
40500*USA	**DMTHEMES File Now Created Automatically**
	On upgrading an account, SB/XA produced an error if the account did not contain the DMTHEMES file. This issue has been addressed in version 6.0.1 so the upgrade process creates the DMTHEMES file if it did not exist in the account.
40514*USA	**Fix for Problem with Selecting Multiple Printers**
	In /SEC.USER.SETUP > F7 Term/Print > Aux Printer ID, if you selected multiple printers, SB/XA Browser Client or SB/XA Rich Client could not connect to an application when the user attempted to log on. The code has been amended to prevent this problem in version 6.0.1.
40571*USA	**Create and Apply a XAML Style to a Grid Field**
	With this enhancement, users can create and apply a XAML style to a field in a grid. For an example XAML style that can be applied to fields in a grid, see the "Style_Tag_Templates_GA2.txt" item in the XATHEMES file.

Issue Number	Description
40634*USA	**Grids Now Handle Multiple Conversion Codes** In version 6.0.0, SB/XA reported an error if a field in a grid had more than one conversion code. This issue has been resolved in version 6.0.1 so SB/XA handles multiple conversion codes without error.
40635*USA, 40650*USA	**Licensing Screens Streamlined** All optional fields have been removed from the Licence Details screen and the Amend Licence Details screen in version 6.0.1.
40643*USA	**New Fields Added to Additional Fields Parameters Screen** New fields for entering XAML Style and Grid Footer Field have been added to the Additional Fields Parameters screen (/SD > F5 Enter Field > F6 Addit) in version 6.0.1.
40676*USA	**Bar Chart Example** In SB/XA 6.0.1, the XAML Examples (XA) system contains an example of a bar chart defined by XAML code.
40749*USA	**Fix for DISP 3 Message Using CPU Capacity** When a Basic subroutine called a process that displayed a DISP 3 message in SB/XA Rich Client, the DISP 3 message display used 80 to 97 percent of CPU capacity on the client machine. A code change has been implemented in version 6.0.1 to correct this problem.
40752*USA	**Labels Displayed Properly on Subsequent Rows of Interleaved Grip** The Car Hire History dialog box in SBDEMO was missing the labels for the Rental Amount and Deposit fields in the second row. The code has been changed in version 6.0.1 so that labels on subsequent rows of an interleaved grid are displayed correctly.
40764*USA	**Goto Line Issue Corrected** In the screen editor (/SE), choosing Edit > Goto Line and entering a line number caused SB/XA Browser Client to fail. This issue has been fixed in version 6.0.1.
40768*USA	**Fix to Allow Logging Off and On with EM Navigation** Logging off and then logging on to SB/XA Browser Client in Windows mode with Navigation set to EM caused the client to fail. A fix prevents this problem in version 6.0.1.
40772*USA	**Display of MPX Submenu** The MPX submenu of the SBX menu tree was disabled in SB/XA Browser Client and SB/XA Rich client if the start system ID and menu were set in the Start Sys,Menu,Opt field in User Security Setup (/SEC.USER.SETUP). A correction in version 6.0.1 prevents the start system ID and menu from disabling the MPX submenu.

SB/XA v6.0.0 release notes

Build 2069
Release Date: August 2008
These release notes provide information about new features, enhancements, and fixes in SB/XA v6.0.0.

What's new in SB/XA v6.0.0

New product name

At version 6.0.0, SB+ Server has been incorporated into a multi-component product, IBM U2 SystemBuilder Extensible Architecture for UniData and UniVerse (SB/XA). The new product is an application development tool for building client applications that run on SB accounts on the UniData or UniVerse data server. It consists of the following components:

SB/XA Application Server (Windows or UNIX)
This component is the functional equivalent of SB+ Server.

SB/XA Communications Server (Windows only)
The middleware software that enables communications between the client and SB/XA Application Server on the U2 data server.

SB/XA Presentation Components (Windows only)
The clients that present the SB developed application to users in a Web browser window or as a rich client application.

For illustrations of the new product architecture and descriptions of the SB/XA Components, see Chapter 1, "Components of IBM U2 SB/XA," in SB/XA Getting Started. For help with planning where to install components of SB/XA on Windows and UNIX computers on your network, see Chapter 2, "Planning Your Implementation of IBM U2 SB/XA," in *SB/XA Getting Started*.

New installation
Given that the architecture of the SystemBuilder product family has changed significantly at version 6.0, the installation program has also changed to handle multiple components. To implement SB/XA, you need to install the three SB/XA components listed above. All are available on the SB/XA product CD. The version of all SB/XA 6.0 components must be an exact match, from the same version, major release, point release, and build number. To be certain that you have matching versions of SB/XA software, we advise you to install all SB/XA 6.0 components from the same SB/XA product CD image. For step-by-step installation instructions, see Chapter 3, "Installing SB/XA Components on Windows," and Chapter 4, "Installing SB/XA Application Server on UNIX," in *SB/XA Getting Started*.

Supplemental support in SBClient 6.0.0
SB/XA version 6.0.0 GA 1 does not support certain functionality that you need for application development work:

- Developing screens in character or GUI mode

- Developing reports

- Printing reports to screen

These features will be available in a later version of SB/XA. In the meantime, SBClient 6.0 provides support for the functionality that is not yet available in SB/XA. SBClient 6.0 is also required to complete the script portion of the SB/XA Application Server installation. SBClient 6.0 is not sold as a separate product; it is included on the SB/XA 6.0 product CD and is covered by the same product license. SBClient 6.0 does not run with SB+ Server version 5.4 or earlier; it is compatible only with SB/XA 6.0. SBClient 6.0 is installed from the SB/XA product CD menu. For instructions, see Chapter 2, "Installing SBClient on a Stand-alone PC," in *SBClient Getting Started*. SBClient software authorizes automatically.

ClickOnce deployment
Microsoft's ClickOnce technology simplifies the work of deploying Windows-based client applications. SB/XA supports ClickOnce as an option for distributing the SB/XA Presentation Components (SB/XA Browser Client and SB/XA Rich Client files) to client computers. For a brief introduction to the use of ClickOnce and pointers to more information about this technology, see Chapter 5, "Methods of Deploying SB/XA Presentation Components," in *SB/XA Getting Started*.

Single Sign-On feature
Single Sign-On is an optional security feature of SB/XA that reduces the number of steps required to sign on to your SB developed applications and connect them to SB/XA Application Server. Without Single Sign-On, the user may complete up to four logons. With Single Sign-On enabled, the user need only log on to the PC. This feature offers convenience and time savings for users who log on

numerous times throughout the workday. For detailed instructions on setting up single sign-on on SB/XA Application Server and on the client computer, see Chapter 6, "Setting Up Single Sign-On," in *SB/XA Getting Started*.

New screen editor

SB/XA Application Server provides a new screen editor from the /SE process. This tool helps you edit code in a visual interface using several advanced capabilities:

- Displays code in color cued chroma-code

- Displays nonprintable characters

- Can expand the display of multivalues

For more information and an example screen, see Chapter 2, "Highlights of SB/XA New Features," in *SB/XA 6.0 New Features*.

Styles and themes

SB/XA allows you to build a state-of-the-art user interface for your SB developed applications using XAML-based graphic design in your presentation layer. With XAML, you can apply styles to elements of the UI and build a theme to customize your product. For more information on XAML and concepts of styles and themes, see Chapter 2, "Highlights of SB/XA New Features," in *SB/XA 6.0 New Features*.

New file transfer protocol

SB/XA 6.0 supports a new file transfer protocol that offers advantages over the protocols supported by SBClient. SBClient 6.0 can be configured to use one of the following three file transfer protocols:

- SBZ
  This is the default protocol that works with all connection methods and system environments. Other than setting up the connection, no additional configuration is necessary to use SBZ. SBZ protocol has a few drawbacks: It is slower than standard network protocols, and it does not transfer binary files reliably. The advantage of SBZ over other file transfer options is its ability to secure the data in transit using SSL telnet connections.

- Network Copy (Windows file sharing protocol or UNIX Samba facility)
  This protocol can be used where SB/XA Application Server can share a network drive with SBClient. This option uses either the native Windows network file sharing protocol or the UNIX Samba facility, which emulates Windows file sharing on UNIX. Since this protocol requires SB/XA Application Server to share a network drive, additional server and network security configuration must be enabled outside of the SB/XA environment. Because of these additional requirements, not all system environments can support this protocol. The advantage of Network Copy is a much faster transfer than SBZ (important for large items) and support for binary file types.

- FTP
  This option can be used where SB/XA Application Server on UNIX is configured to allow the FTP protocol to move files from a predetermined directory. As in the Network Copy option, additional server and security configurations must be administered outside of SB/XA. Because of these additional requirements, not all system environments can support this protocol. The advantage of FTP is a much faster transfer than SBZ (important for large items) and support for binary file types.

SBXA 6.0.0 comes with only one supported native file transfer protocol. This new protocol addresses all of the limitations of the three protocols used by SBClient 6.0: It is secure by default, it can transfer binary files, it is much faster than SBZ (comparable to Windows file sharing and FTP), and it requires no special network or security setup.

New features, enhancements, and fixes in SB/XA v6.0.0

The following issues were addressed in this release:

Issue Number	Description
7231*USA	**CHANGE.PWD Enforces No-Comma Rule** The CHANGE.PWD process in versions 5.3.4 and later did not enforce the password validation rule that the password cannot contain a comma. The issue has been corrected in version 6.0 so CHANGE.PWD no longer accepts passwords containing a comma.
9513*UK	**Change to Correct Issue with PD.S Rounding** A code change in version 6.0 fixed an issue with grid control that caused the PD.S process to round values incorrectly in GUI mode.
9817*USA	**Fix to Prevent Failure of SB.REMOTE.PROCESS** If SB.REMOTE.PROCESS used COMMON action 0, the process failed when it was run outside of SB in versions 5.3.8 and later. This issue has been corrected.
9975*USA	**Logs Capture Output from REGEN.EXP and REGEN.GUI** An enhancement in version 6.0 captures output from the regenerate expressions (REGEN.EXP) and regenerate GUI (REGEN.GUI) processes to a log file in xxCONTROL when the processes are run in quiet mode. The log file produced by REGEN.EXP is named REGEN.EXP.LOG; the log file produced by REGEN.GUI is named REGEN.GUI.LOG.
10357*AUS	**Fix for Problem with Preferred Heading** In previous versions, the preferred heading in query reports was corrupted if (a) the preferred heading contained 'L' to include a line break, and (b) the selection criteria included pre-run questions, and (c) the report output was directed to a printer. A change to the Query Report Definitions code in version 6.0 corrects the problem.
10406*USA	**Mouse Click between Memo Field and Grid No Longer Causes Data Integrity Issue** Clicking the mouse between a Memo field and a grid caused data corruption if both the Memo field and the grid were work fields and did not have a field definition. A fix corrects the problem in version 6.0.
10617*USA	**VOC SBSYSMENU<1> Now Contains Expected Value** In version 5.4.2, VOC SBSYSMENU attribute 1 in the SB admin account was blank after installing the product. This issue has been corrected in version 6.0 so attribute 1 contains the value 'M' as designed.
10689*USA	**Correction of Issue in MAINFILE with Process After Tool Read** In process definitions in version 5.4.2, MAINFILE was set to null in PD.S if a Process After Tool Read was present. This issue has been fixed.
10723*USA	**Resolution of Issues with REGEN.EXP Functionality** In versions 5.4.2 and earlier, REGEN.EXP did not regenerate the global process file if attribute 1 of the global process record contained a 'G'. Also, validation processes were not regenerated if they were an expression. A change in version 6.0 resolves both of these problems.
35100*USA	**Change to Product Licensing Model** The product licensing model has been changed at version 6.0 to require authorization through U2 Business Controls (U2BC). All parts of the SystemBuilder product family, including SB/XA 6.0 and SBClient 6.0, are now covered by a single product license.

Chapter 3: SB+ Server v5

The release notes in this section provide information about changes in SB+ Server v5.

SB+ Server v5 release notes

SB+ Server v5.5.3 release notes

Build 5301
Release Date: February 2012
These release notes provide information about SB+ Server v5.5.3.

What's new in SB+ Server v5.5.3

Changes to SB+ Server v5.x
There are no fixes or enhancements in SB+ Server v5.5.3. The version number has been incremented, and SB+ Server v5.5.3 has been tested for compatibility with SBClient v5.5.3.

SB+ Server v5.5.2 release notes

Build 5200
Release Date: December 2011
These release notes provide information about fixes in SB+ Server v5.5.2.

What's New in SB+ Server v5.5.2

Changes to SB+ Server v5.x
SB+ Server v5.5.2 is a maintenance release, and contains no new features. This release consists of one bug fix to address an issue, as detailed in the table below.

Fix in SB+ Server V5.5.2

The following issue was addressed in this release:

Issue Number	Description
SBXA-5011	In version 5.5.1, if a screen process contained input-derived fields that used @OTHER.REC, and the screen called a second screen process that also used the same functionality, when the user pressed F2 (Update process) to return to the first screen, the common variable @OTHER.REC still contained the values from the second screen. The code has been amended in version 5.5.2, and @OTHER.REC is now refreshed from the stack when the user presses F2.

SB+ Server v5.5.1 release notes

Build 5104
Release Date: November 2011
These release notes provide information about enhancements and fixes in SB+ Server v5.5.1.

What's new in SB+ Server v5.5.1

Updates to V5.x Features

SB+ Server 5.5.1 is a maintenance release, and contains no new features. Updates include several enhancements and bug fixes to address issues and improve functionality, as detailed in the table below.

Enhancements and fixes in SB+ Server v5.5.1

The following issues were addressed in this release:

Issue Number	Description
SBXA-843	When Report Writer output was sent to DIF, a blank line was inserted into the created xxWORK record, regardless of the setting specified in the SB.RD.DIFF flag. This problem has been corrected in version 5.5.1, and output to DIF no longer contains extra blank lines.
SBXA-1687	In GUI mode only, right-justified fields in a selection process (/PD.S) returned incorrect values for some numbers. With a fix in version 5.5.1, derived and default values are calculated correctly in right-justified fields.
SBXA-3538	The copyright statement was partially cut off at the bottom and right sides of the SB+ logon screen. The bitmap is now displayed at a higher resolution so the entire copyright statement is shown within the window.
SBXA-3901	In the UniVerse edition, focus did not switch properly between multivalued grids if the cursor was in a blank, controlling multivalue field in one grid and the user clicked in the other multivalued grid containing no data. The focus appeared to switch, but any data entered in the empty grid was ignored. The SB.INTERPRET.I code controlling focus has been amended, correcting this problem in version 5.5.1.
SBXA-3933	The GOTO.MVLINE process selected an incorrect multivalue when used in a screen. This issue was related to the problem reported in SBXA-3930 and was addressed by the same fix.
SBXA-3936	In multivalued grids for which the "Use Grids for MultiValued fields" option was set to N, scroll bars in the grid behaved erratically. This issue was related to the problem reported in SBXA-3901, and the fix for that issue corrected this one as well.
SBXA-3982	After a process or program changed the CNT variable in a multivalued field in version 5.5.0, the cursor was not positioned correctly in the grid. The cursor behavior has been corrected in version 5.5.1 so it again works the same as in 5.4.x.
SBXA-4078	On entering "/"at any prompt, F3 process lookups did not return the correct process if the selection list was sorted by Description. This issue has been resolved.
SBXA-4151	With terminal emulation set to Wyse 50, SBClient displayed Esc (escape) characters as a black box. The escape character should be displayed in the same color as the background color definition. This has been fixed in version 5.5.1.
SBXA-4187	When running a Smart Query, directing the output to Microsoft Excel resulted in an uninitialized variable error. The code has been corrected in version 5.5.1, and the data is transferred from Smart Query to Excel without error.
SBXA-4325	New installations and upgrades to SBClient 5.5.1 require entering an authorization key issued specifically for version 5.5.1. The 5.5.1 authorization key cannot be used to authorize SBClient 5.5.0 or earlier versions.

Issue Number	Description
SBXA-4446	If the terminal ID was empty for each user in User Security Setup (/SEC.USER.SETUP), the default terminal emulation in Admin > Printers and Terminals > Port Configuration was not inherited at the user level. As a result, the user was prompted to enter a terminal ID at logon. The code has been revised in version 5.5.1 so that in this situation the user is not prompted to enter a terminal ID at logon.
SBXA-4480	Compiling a Report Writer report using the generate source code (/GC) process produced a syntax error. This issue has been resolved in version 5.5.1, and the /GC process finishes successfully without error.
SBXA-4515	After upgrading from version 5.2.x or later to 5.5.0, multiline grid headers displayed "_char10_" instead of a line feed (ASCII character 10). The upgrade process has been amended to delete an item that was causing this problem in grid headers.
SBXA-4520	At version 5.5.1, the Registry keys for SBClient have been changed as follows: ..\ROCKET SOFTWARE\SBCLIENT has been changed to ..\ROCKET SOFTWARE\SBC5\SBCLIENT ..\ROCKET SOFTWARE\Runtime has been changed to ..\ROCKET SOFTWARE\SBC5\RUNTIME
SBXA-4542	In the UniVerse edition on AIX, it was sometimes necessary to double-click a radio button to register focus on it. A change to the order in which processes are executed resolves this problem in version 5.5.1, so single-clicking a radio button changes the focus to that element.
SBXA-4635	In previous versions, the TU.LAUNCH.APP subroutine was looking for a key in the Registry that is no longer there. This subroutine has been changed so it does not look for a nonexistent key.
SBXA-4641	The DEMOBP file has been added in SB.DEFN at version 5.5.1.
SBXA-4824	In character mode only, deleting or moving data in a multivalued field that was painted on the form resulted in corruption of the data display. This issue has been resolved in version 5.5.1.
SBXA-4874	In GUI mode, @OTHER.REC was not reinstated properly when returning from another process invoked using a "/" command that also used @OTHER.REC. The code has been amended to correct this problem in version 5.5.1.

SB+ Server v5.5.0 release notes

Build 5011
Release Date: September 2010
These release notes provide information about enhancements and fixes in SB+ Server v5.5.0.

What's new in SB+ Server v5.5.0

Installation upgrade/rebranding
The InstallShield program for Windows has been upgraded and the product has been rebranded.

Updated/rebranded documentation set
The SystemBuilder documentation set has been updated to reflect changes in the product, including the product name and default path names.

Enhancements and fixes in SB+ Server v5.5.0

The following issues were addressed in this release:

Issue Number	Description
SBXA-41	**Process After Grid Display Removed from Non-output Screens** The Process After Grid Display slot is relevant only to output screens (in /PD.O > F5 - GUI Parameters), but it was implemented in /PD.I input screens, /PD.H shell wrapper processes, and /PD.T transaction processes in version 5.4.x. This slot has been removed from all screens except /PD.O output screens.
SBXA-113	**Grace Period Changed to 10 Days** At version 5.5.0, the grace period for entering license information and authorizing the product has been changed to 10 days. Evaluation licenses can be now be authorized for a period of 60 days.
SBXA-186	**Upgrades to Windows Installation/Rebranding** The InstallShield program for Windows has been upgraded and the product has been rebranded.
SBXA-524	**Uninstall Program Altered** The uninstall program no longer deletes the application data directory automatically.
SBXA-755	**Copy Group Function Fixed to Copy $ Items** In SB+ Server 5.4.4 and earlier, the Copy Group function (Admin > Security > Group Security Setup > F10-Action > Copy Group) did not copy relevant $ items in DMSECURITY. This issue has been resolved in version 5.5.0.
SBXA-1395	**Resolution of Issue with F3 Intuitive Help Lookups** In F3 intuitive help lookups in GUI mode, selecting the first row from the intuitive help list returned no data. This problem has been resolved in version 5.5.0 so F3 intuitive help lookups return data as expected.
SBXA-1449	**Issue with Output Screen Driver Corrected** With the Multilanguage option on, under a specific set of conditions the common variable @RECORD was corrupted the first time the screen was displayed. A fix to the _SB.GEN.DRIV.O corrects a problem with the output screen driver in version 5.5.0.
SBXA-1458	**Fix Prevents SB.GEN.DRIV.I from Overwriting Common Variable @RECORD** If the Multilanguage option was on and a driver record did not exist, the common variable @RECORD was overwritten in subroutine calls from SB.GEN.DRIV.I. This issue has been resolved in version 5.5.0.
SBXA-1513	**Record in OTHER(2) Cleared Before Secondary File Update** In the /PD.F (periodic file update) process, OTHER(2) contains the record to be written on a secondary file update. The file update process was not clearing OTHER(2) for a new record before updating the secondary file. A fix corrects this problem in version 5.5.0 so the record in OTHER(2) is cleared before the secondary file is updated.
SBXA-1582	**Audit Record Generated on Copying User or Group Record** In version 5.4.2 and later, the security API failed to create an audit record when a user or group record was created by copying it from the Security menu's user or group copy function. This defect has been corrected so an audit record is created as expected.

Issue Number	Description
SBXA-1593	**Parameter for Inhibiting User's Ability to Change Security Record** A new flag called "Change Own User Security Record" has been added in SB+ Control Parameters (/SB.PARMS > F5-System Defaults). This parameter provides the ability to inhibit users from changing their own user security record. The flag does not apply to members of the ROOT group; these users always retain the ability to change their own user security records.
SBXA-1594	**Security API Supports Menu and Process Restrictions for Groups** The SB+ security API has been extended to allow SB developers to create and update restrictions to the menu and process restrictions in group security through a UniBasic or UniVerse BASIC program.
SBXA-1597	**Job Schedule Process Runs Correctly with Multilanguage On** In version 5.4.x with the Multilanguage option on, if a user called a process that first displayed a dialog box and then ran a /JSD job schedule process, the process terminated with the errors "DATE/TIME HAS ALREADY PASSED" and "Schedule Terminated [process_name]". A code fix corrects this issue in version 5.5.0.
SBXA-1672	**/RELEASE.LICENSE Process No Longer Releases Active User Licenses** In previous versions, a flaw in the /RELEASE.LICENSE process caused it to release licenses of active users. This issue has been resolved in version 5.5.0, so the process releases only the licenses for inactive user sessions.
SBXA-1718	**Fix to Display Last Column in Multivalued Grids** In version 5.4.4, the last column in multivalued grids was displayed separately from other columns if there was only one multivalue set and there were no other objects on the screen. This issue has been corrected in version 5.5.0.
SBXA-1857	**/PD.I Option F Now Supported in Character Mode** /PD.I option F functionality was previously not implemented in character mode linked screens. An enhancement in version 5.5.0 enables option F to work the same in character mode as in GUI mode, placing the cursor in the first field of the current linked screen.
SBXA-2309	**UniData Edition on UNIX/Linux Uses Lowercase updatevoc Command** When installing SB/XA Application Server for UniData on UNIX or Linux, the error "sh: UPDATEVOC not found" occurred because the UNIX/Linux command is lowercase. The install program has been modified to use the lowercase command, so this error no longer occurs.
SBXA-3004	**Copy Text from Report Writer .TXT Record to Alternative Language Item** Text typed directly in a Report Writer report is stored in the .TXT record for the report definition within the dictionary of the file the report is run against. With this enhancement in version 5.5.0, the text stored in the report_name.TXT item can be copied to create an alternative language item, such as report_name.TXT.FR (or any other language code), and the alternative language item can then be edited.
SBXA-3047	**File Update Process Displays Lock Warning** With this enhancement, if a file update process encounters a lock, it displays a warning to the user in version 5.5.

Issue Number	Description
SBXA-3069	**Problem with Preferred Heading Corrected**
	In previous versions, the preferred heading in query reports was corrupted if (a) the preferred heading contained 'L' to include a line break, and (b) the selection criteria included pre-run questions, and (c) the report output was directed to a printer. A change to the Query Report Definitions code in version 5.5.0 corrects the problem.
SBXA-3354	**Support for Multilanguage Text on GUI Buttons**
	When adding buttons on GUI screens with the Multilanguage option on, the /TRANSLATE process offers a GUI Screen Labels and Push Button Strings option that allows you to enter multilanguage text for button labels in version 5.5.0.
SBXA-3394	**No Report Heading for Controlling Multivalue**
	If the controlling multivalue field in a grid did not have a Report Heading value, the grid failed to work in version 5.4.4. The functionality of earlier versions has been restored, so the Report Heading can be left blank in version 5.5.0 without causing the grid to fail.
SBXA-3421	**Fix for "1 INVALID TYPE" Error in Output to PDF**
	If the printer name in the Physical Printer Definition was set to a value of "1," SB+ Server returned a "1 INVALID TYPE" error when any report was output to PDF. Fixes have been made in the driver generation process and in the program that runs reports, preventing this error in version 5.5.0.
SBXA-3426	**Correction of Autologin Issue**
	An issue with the autologin feature has been fixed.
SBXA-3436	**New Utility to Export SBClient Settings**
	Existing customers who installed SBClient 5.4.4 or earlier may have session configurations, scripts, phone books, toolbars, and Smart Query definitions that can be used in SBClient 5.5.0 or later. To save settings from SBClient 5.4.4 or earlier, you can export the settings to a file before installing SBClient 5.5.0 or later. After installing the latest version of SBClient, you can then import the files containing settings that you saved. For instructions, see Chapter 2, "Installing SBClient on a Standalone PC," in *SBClient Getting Started*.
SBXA-3449	**Multivalued Data No Longer Cleared after Deleting Controlling Multivalue**
	In multivalued grids in GUI mode, pressing the **Delete** key to remove the last controlling multivalue (excluding the backslash) yielded unexpected results if process slots were used. The behavior varied depending on whether the Process Before slot, Process After slot, or both slots were used, but in each case data was cleared unexpectedly. The code has been amended to resolve this issue in version 5.5.0.
SBXA-3523	**/RELEASE.LICENSE Fixed to Parse Output of LISTUSER**
	The SB+ /RELEASE.LICENSE process relies on the database command LISTUSER to determine who is logged on to UniData. The output from LISTUSER contains the user's IP address for Windows, but not for UNIX. The /RELEASE.LICENSE process in the UniData for UNIX edition has been changed to parse the output from LISTUSER correctly on UNIX, so the process now works as designed.