



- [Site Map](#)
- [Topic Index](#)

[Home](#)[Install](#)[Migrate](#)[Start Authoring](#)[StreamSQL](#)[Test/Debug](#)[Adapters](#)[API](#)[Admin](#)[Samples](#)[Studio](#)[Reference](#)

Current Location: [Home](#) > StreamBase Release Notes

StreamBase Release Notes

StreamBase 6.1.7

Date: 9 Apr 2009

This page contains the release notes for the current version of StreamBase.

Contents

[Before You Install](#)

[Resolved Limitations](#)

[Fixed in Previous Releases](#)

[Known Limitations](#)

Before You Install

Before you install StreamBase:

1. Read this Release Notes document, paying special attention to the [Issues and Cautions](#) section.
2. Confirm that your target system matches the hardware and software requirements discussed on [Supported Configurations](#).
3. Read the [Installation Guide](#).

More Information

- ◆ For a summary of what's new in this release, see [New and Noteworthy](#).
- ◆ If you have used a StreamBase 3.7 release, see the important information in [Migrating StreamBase Releases](#).
- ◆ If you are new to StreamBase, read [Getting Started](#) after installation.

See the [documentation home page](#) to begin exploring the StreamBase documentation.

If you are reading this document in printed form, note that the online version of the StreamBase documentation is available in several ways:

- On the installation CD, open `doc/index.html` in a browser.

StreamBase Release Notes

- From the installed file system, open the documentation home page in a browser. The default locations are:

UNIX /opt/streambase/doc/index.html

Windows C:\Program Files\StreamBase Systems\StreamBase.n.m\doc\index.html

- In StreamBase Studio, select Help Help Contents from the top menu.
- On Windows, open Start (All) Programs StreamBase n.m StreamBase User Documentation StreamBase User Guide - Help Viewer
- On UNIX at a terminal window's command prompt, run **sbhelp &**.

Issues and Cautions

Take note of the following issues in the current StreamBase release.

Reset Perspectives

For any 6.x release, if you have installed any preview release of StreamBase Studio on your computer, you must reset your perspectives in both StreamBase Studio and StreamBase Manager to pick up the changes in the final release.

In both StreamBase Studio and StreamBase Manager, invoke Window Reset Perspective. For StreamBase Studio, do this in both SB Authoring and SB Test/Debug perspectives.

Do Not Use Studio 3.x Workspace with Studio 5.x or 6.x

Releases of StreamBase Studio starting with 5.0 use a new Eclipse workspace format that is incompatible with the workspace from previous releases. When Studio 5.0 or later is first started and it prompts for the location of its workspace, use the default location or specify a new, empty directory. Do NOT specify the location of a StreamBase Studio 3.x workspace. Studio 5.0 or later issues a warning dialog if it detects an older format workspace.

Customer Support

[Contact Information](#) contains information about available support options. You can send us e-mail or get information from your StreamBase Systems representative about our support portal.

Resolved Limitations

Limitations Resolved in 6.1.x

Fixed in 6.1.7	
Number	Resolution
SB-13373	A 64-bit byte-swapping issue was corrected that affected communication between a Windows client and StreamBase Server on Solaris.
SB-13287	In previous Studio releases, in the Properties view for a Query Table, if you specified a secondary index of type Unordered (hash), that selection was honored and saved correctly. However, the next time you entered the Properties view for the same Query Table, and opened the Edit Secondary Index dialog, the secondary index type reverted to Ordered (btree). This situation was corrected.
SB-12925	

StreamBase Release Notes

	In previous releases, when using the Reuters RMDS Subscribing Input adapter and reading an initial subscriptions file, two-part RICs that contained an equals sign were not correctly interpreted. This was corrected.
SB-12779	On Windows, with multiple instances of StreamBase Server running as a service on the same machine, event log messages from each server instance were hard to distinguish. This was fixed by adding your assigned service name to the Source field of each event log entry that comes from the server startup code.
SB-12604	In previous releases, when using groups in the EventFlow Editor, it could be difficult to select one arc inside a group, and only that arc. This was corrected.
SB-12681	In previous releases, when using Query operators with Query Tables, an input string value longer than a string returned from a table would appear as the returned value overwriting the input value. This only occurred when input values other than the primary key were passed into the result tuple, and did not affect the actual value returned from the table. This condition was corrected.
Fixed in 6.1.6	
Number	Resolution
SB-12870	The sbd command was interpreting hyphens in certain path names in arguments as the beginning of a new option. This was corrected.
SB-12828	When running two or more instances of StreamBase Server as a Windows service on the same machine, there could be contention for access to some temporary files. On 64-bit Windows, this could result in a failure to load when restarting the second service. The cause was identified and corrected.
SB-12775	The .NET API was leaking handles when trying to create a <code>StreamBaseClient</code> object to a downed server. The cause was identified and corrected.
SB-12697	A packaging error in release 6.1.4 prevented the 64-bit StreamBase Server from starting when configured as a Windows service. This was corrected.
SB-12690	In previous releases, PATH settings generated with sb-config --setenv or --setsysenv contained mixed style path separators. This was corrected.
SB-12636	Under some circumstances, a StreamBase Unit Test could hang if a file of expected CSV data was empty. This was fixed.
SB-11175	When using the StreamBase to StreamBase input adapter, if incoming and outgoing schemas did not match, the adapter complained with a DEBUG-level message in the Error Log view. To make these errors more visible, the message type was changed to INFO, which appears in the Error Log view if <code>STREAMBASE_LOG_LEVEL</code> is 0 (the default setting) or higher.
Fixed in 6.1.5	
Number	Resolution
SB-12661	In previous releases, there could be locking issues with disk-based Query Tables that had downstream updates. This was corrected.
Fixed in 6.1.4	
Number	Resolution
SB-12605	In the Properties view for the Query operator, text labels in the Operation Settings tab were clarified for Read and Delete operations.
SB-12571	In previous releases, some applications with disk Query Tables that used no-match values would pass typechecking but failed to run. The cause was identified and fixed.
SB-12551	Starting with this release, when using sbd with its <code>-b</code> option, log messages from your application are now correctly logged to syslog (UNIX) or the Event Log (Windows).
SB-12503	

StreamBase Release Notes

	Starting with this release, the custom Java function wizard now generates code that includes the required <code>getResultLength()</code> method. This method is required when creating a custom aggregate function whose <code>calculate()</code> method returns a <code>String</code> or <code>byte array</code> .
SB-12498	In previous releases, StreamBase applications did not detect and process the logback configuration file, if one was provided. This was corrected.
SB-12458	The EventFlow Editor could throw a <code>ClassCastException</code> error when attempting to delete a Materialized Window icon. The cause was identified and corrected.
SB-12384	The Extract as module feature of the EventFlow Editor was inadvertently disabled in recent releases. This was corrected and the feature was restored.
SB-12345	As of this release, a duplicate, non-loadable class file was removed from <code>sbclient.jar</code> to avoid confusion. The duplicate class prevented the JAR from being signed for deployment by sites whose policies require signed JARs.
SB-12309	The CSV Writer adapter was incorrectly mixing debug messages of types <code>DEBUG</code> and <code>DEBUG2</code> . This was corrected.
SB-12244	The CSV Reader adapter could show an index out of bound exception instead of a typecheck error under certain circumstances. The cause was found and corrected.
SB-11908	The <code>java-prepend-classpath</code> parameter in the StreamBase Server configuration file was introduced in release 5.1.1 as a workaround for then-new behavior. This parameter was found to be unnecessary and was removed in later releases, but typechecking failed to flag the parameter as incorrect. As of this release, using the <code>java-prepend-classpath</code> parameter is correctly flagged as a configuration file error.
Fixed in 6.1.3	
Number	Resolution
SB-12211	The Visual Debugger in StreamBase Studio would occasionally appear to stop debugging, especially if the EventFlow application being debugged was anywhere other than the root of the Studio project folder. Debugging was still underway, but the visual highlighting stopped updating. The cause was found and corrected.
SB-12199	In the StreamBase .NET client API of previous releases, all <code>StreamBaseClients</code> were constructed with buffering enabled, but a buffer size of 1. As of release 6.1.3, .NET <code>StreamBaseClients</code> are constructed with buffering disabled. You can enable buffering using the <code>EnableBuffering</code> method.
SB-12159	In rare cases, certain StreamBase applications would fail typechecking in Studio, but would run normally when called from the <code>sbd</code> command line. The cause was identified and corrected.
SB-11495	In the Expressions QuickRef section of the Properties view in StreamBase Studio, several timestamp-related functions were displaying an incorrect function signature. This was corrected.
Fixed in 6.1.2	
Number	Resolution
SB-12118	Under certain circumstances involving modules with shared tables in loops, when resolving the loop typecheck by setting a schema on one of its arcs, Studio would not clear the typecheck unknown status on one of the modules. This was resolved.
SB-12095	If a component in the EventFlow canvas is selected, then unselected without making changes in the Properties view for that component, Studio could sometimes display an incorrect message on that component's output streams indicating that no schema is known. This was corrected.
SB-12077	In releases 6.1.0 and 6.1.1, applications that shared tables at a grandparent or higher level of table sharing, sometimes failed to start. This was fixed.
SB-11986	In the StreamBase Java Client API, the methods <code>Schema.Field.hashCode()</code> and

StreamBase Release Notes

	<code>Schema.Field.equals()</code> produced incorrect results for Field objects whose type is <code>DataType.TUPLE</code> . This was corrected.
SB-11972	In previous 6.1.x releases, in some circumstances StreamBase would generate a spurious warning message that indicated a mismatch between a UUID hash value and another value generated by hashing. This was corrected, eliminating the warnings.
SB-11898	In previous releases, when performing updates to a memory Query Table, if an error was thrown while evaluating an expression, the original row being updated was deleted from the table. This was corrected, and errors thrown during Query Table updates now leave the original row unchanged.
Fixed in 6.1.1	
Number	Resolution
SB-11957	In the StreamBase Client API for Java, <code>Tuple.getFieldAsString()</code> was not returning the correct results when the specified field was a nested field. This was fixed.
SB-11946	In the Sequence operator, the evaluation order of the update expression was corrected. The update expression is now evaluated prior to assigning the output field for the output tuple.
SB-11923	In release 6.1.0, when running the RMDS Threshold Alarm (Live Data) demo, an error message could occur after clicking the Click to Perform link in the fifth page of the cheat sheet. This was fixed.
SB-11905	In the Run Dialog, when configuring a StreamBase run or debug configuration, if you changed one of the radio button selections in the Advanced tab, the Apply button was not enabled, which prevented you from saving those settings. This was fixed.
SB-11903	In schema editing tables, when tabbing out from the type column after selecting a variable-size type such as string that was previously a fixed size type such as int, the cursor was placed in the description cell, when it should have been placed in the size cell. This was fixed, and the cursor is now placed in the correct cell for all data types.
SB-11527	In release 6.1.0, an entry appeared in the StreamBase Studio Error Log view when first opening or first indexing the help system. The cause was identified and fixed.
SB-11465	When configuring an HTTP or IRC Reader adapter to listen on a specific network interface, the application sometimes failed typechecking with a <code>java.lang.UnsatisfiedLinkError</code> . This was fixed.
SB-11237, SB-4625	<p>In previous releases, in some circumstances StreamBase Studio would generate a typecheck error with a message to remove a row that you could not remove because the row was not displayed in the Properties view. This could occur when you edited a data construct associated with an operator and then attempted to save the changes.</p> <p>Starting in release 6.1.1, the Properties view is more proactive in determining whether changes in associated components in the EventFlow application require re-typechecking the current component. This behavior change fixes the problem described above, but may cause your EventFlow applications to be flagged more often as unsaved.</p>
Fixed in 6.1.0	

StreamBase Release Notes

Number	Resolution
SB-11857	The <code>flushBuffer()</code> method in the <code>StreamBaseClient</code> API for Java, C++, and .NET was throwing an exception if called before enqueueing was enabled. This was fixed, and <code>flushBuffer()</code> now returns a helpful error message if called on an unenqueued stream.
SB-11426	In release 6.0.x, in StreamBase Manager, the Latest Size column in the Queues view always showed zero, even when running multiple-container applications with enqueues between containers. This was corrected, and the Queues view now reports the same information as sbmonitor for the same running applications.
SB-10876	In release 6.0.x, hierarchical data and the tuple data type were not supported universally throughout StreamBase Studio. As of release 6.1, hierarchical data is fully supported in feed simulations and when using the Unit Test feature.
SB-10484	You can now add properties of type timestamp when using Studio's wizards to generate Java code for custom Java operators and adapters. Fields corresponding to such properties are now correctly displayed and typechecked in the Properties view for an instance of the custom operator or adapter. In release 6.0 and earlier, you could specify properties of type timestamp directly in Java code without using the Studio wizards, but the corresponding fields did not appear in the Properties view in Studio.
SB-10468	In releases 5.0.x and 5.1.x, some SQL queries succeeded when first connecting to the database server but failed when reconnecting after an error. This problem occurred when using the JDBC operator and a JDBC data source. This problem was fixed.
SB-6974	StreamBase Studio 6.0 added the Group feature to the EventFlow Editor, which allows you to draw a visual group box around a selected set of components in the canvas. In release 6.0.x, you could select an existing group with Ctrl-Click , but could not cancel the selection with another Ctrl-Click . This problem was fixed.

Fixed in Previous Releases

For the list of issues resolved in previous releases, see:

- [Release Notes for StreamBase 6.0.x](#)
- [Release Notes for StreamBase 5.1.x](#)
- [Release Notes for StreamBase 5.0.x](#)
- [Release Notes for StreamBase 3.x](#)

Known Limitations

This section describes known limitations in the current release of StreamBase. Each item includes a tracking number, description, and whenever possible, one or more workarounds.

SB-13398	Filter operators with very large predicate settings may result in a runtime <code>EvalException</code> error.	
	Description	Filter operators with several output ports and complex expressions to evaluate for each port in a <code>com.streambase.sb.runtime.exceptions.EvalException</code> error when to run the application that contains such a filter.
	Workaround	Add another Filter operator and split the predicate settings between the two Filter operators.
SB-12136	On Windows, some third-party applications can interfere with StreamBase Server starting.	
	Description	In recent releases, StreamBase Server is started by default with a requested maximum memory of 512 MB. Certain third-party applications, including Apple's Bonjour program, load themselves

StreamBase Release Notes

		middle of available RAM, which can prevent StreamBase Server from reserving a contiguous memory.
	Workaround	You can (1) reduce StreamBase Server's maximum memory size request by adjusting the <code>jv</code> section of the server configuration file, (2) remove the competing program, such as Bonjour, and (3) add RAM.
SB-12071		Problem with two .NET client API methods if data type of Field is tuple.
	Description	The following methods in the .NET client API produce incorrect results for Field objects with data type is <code>DataTypes.Tuple</code> : <code>Schema::Field::GetHashCode()</code> and <code>Schema::Field::Equals()</code> .
	Workaround	None.
SB-12016		Studio HTML display issues with Linux and Firefox 3.x.
	Description	Recent Linux distributions use Firefox 3.x as the default browser. Firefox 3 splits the display into a separate piece called Xulrunner so that it can be called by applications other than Firefox. In the default Linux installation, this can cause some display problems with StreamBase Studio. Symptoms are: <ul style="list-style-type: none"> • The Welcome page has a white background and no longer shows the bubble graphics. • Studio Help pages and the <code>sbhelp</code> utility open in the browser, not in separate Help windows.
	Workaround	Install the xulrunner compatibility package for your Linux distribution. For example, for Ubuntu use the following command: <pre>sudo apt-get install xulrunner-gnome-support</pre>
SB-11685		No typecheck error for strings of different sizes when using strict setting on the Union operator.
	Description	If you use the strict setting for the Union operator, and strings are not of the same size in the streams, StreamBase fails to generate a typecheck error. Instead the output uses the size of the longest string.
	Workaround	Avoid specifying strings of different lengths if you use the Union operator and strict setting.
SB-11576		Duplicate dialog boxes in EventFlow after deleting a project.
	Description	If you open a project, open an application in the project, delete the project, and then click the application in the EventFlow Editor, StreamBase Studio generates duplicate File Deleted dialog boxes.
	Workaround	Click the same button in both boxes.
SB-11424		<code>sbmonitor</code> : queue information view blocks help screens.
	Description	When <code>sbmonitor</code> is running, press <code>L</code> to toggle to the queue information view. While in that view, the <code>?</code> and <code>H</code> keys should show the help screens, but do not.
	Workaround	Press the <code>L</code> key to toggle back to the thread information view, where the <code>?</code> and <code>H</code> keys work as expected.
SB-11392		StreamBase Server fails to start with any <code>jvm-args</code> paths containing spaces.
	Description	StreamBase Server fails to start due to incorrectly parsed JVM arguments if the <code>jvm-args</code> section in the <code>java-vm</code> section of the configuration file contains any JVM path setting that contains spaces. It does not matter whether the setting is explicit or specified by means of an environment variable.
	Workarounds	1. Change the installed locations of the paths in question to a location without spaces in the configuration file. 2. On Windows, you can use the 8.3 version of any space-containing path component to form a path without spaces. Use the <code>DIR /X</code> command to determine the 8.3 versions of path components.
SB-11387	Description	Visual debugger slows application execution.

StreamBase Release Notes

		Running an application while it is being debugged by the StreamBase visual debugger incur performance cost in terms of the peak message rate that the application can handle. For this not enable the debugger for production. Also, be aware of the possible changes in speed when enqueueing large amounts of data to an application being debugged.
	Workaround	None.
SB-11279		JDBC Operator, no blob inserts with DB2 and batching.
	Description	Due to DB2 driver issues, the JDBC Operator cannot insert blob fields when batching is on. This is specific to DB2 and does not affect other supported databases.
	Workaround	None.
SB-11152		Error message shows on wrong Properties view tab for the Aggregate operator.
	Description	When setting up an Aggregate operator with a group option, some typechecking error messages only in the General tab, not the Group Options tab where the error occurred.
	Workaround	None.
SB-11130		Focus in the Debug view is sometimes lost while stepping through debugging.
	Description	Focus in the Debug view can be intermittently lost while stepping through an application at speed, such as when frequently pressing the F6 button.
	Workaround	If the focus becomes lost in the Debug view during execution stepping, you can reselect any item in the execution stack of the Debug View and continue stepping.
SB-11087		Show in Help links no longer jump to the documentation for the exact function.
	Description	In previous releases, when you clicked the Show in Help link in the Properties view's Functions tab, a Studio Help window opened to the section describing the current function in the Expression Language page. In release 6.0, the same click takes you to the top of the Expression Language page.
	Workaround	Use the link in the blue box at the top of the page to jump to the Alphabetical List of StreamBase Functions, then link directly to the function of interest.
SB-10983		Reuters RFA Publishing Adapter not shipped for Linux
	Description	Because of a change in C++ libraries, the Reuters RFA Publishing external adapter is not shipped for Linux in StreamBase 6.x.
	Workaround	Use the new Reuters RMDS Publishing embedded adapter.
SB-10971		CSV Reader sample application must be reloaded.
	Description	The CSV Reader sample application from previous releases no longer passes typechecking in StreamBase 6.x.
	Workaround	Reload the CSV Reader sample shipped with release 6.x.
SB-10876		Hierarchical data and the tuple data type are not supported universally throughout StreamBase.
	Description	Hierarchical data, nested schemas, and the tuple data type are not yet supported when using simulations, recordings of StreamBase applications, or with the new Unit Test feature in StreamBase Studio.
	Workaround	None.
SB-10792		The Query operator converts a JDBC data type differently when using explicit schemas than when using default schemas.
	Description	When explicit schemas are used, the Query operator does not use database metadata to determine the mapping between JDBC data types and StreamBase data types. The JDBC data type <code>Types.TIMESTAMP</code> is normally converted to an interval timestamp since it has a time, but no date component. But when explicit schemas are used, there is no database type information, so <code>Types.TIME</code> is converted to an absolute timestamp.
	Workaround	None.

StreamBase Release Notes

SB-10697	.NET cache files remain after uninstalling.	
	Description	After uninstalling StreamBase on Windows, the .NET libraries are left behind in C:\Windows\assembly. There are no ill effects of these files, other than taking up disk space.
	Workaround	To reclaim the disk space, remove the files manually. Navigate to C:\Windows\assembly in Windows Explorer and remove the assembly named sbclient. Removing the assembly removes the files associated with the assembly.
SB-10486 (1)	On-disk format for query tables changes in 6.x.	
	Description	The on-disk format for disk-based query tables changed in 6.0 as a result of adding support for hierarchical data and upgrading the underlying disk database library.
	Workaround	If you have query tables in existing applications, you must convert them to the new format by dumping to a CSV file in your current StreamBase release and reloading into the new StreamBase release.
SB-10486 (2)	Hierarchical data restrictions.	
	Description	Patterns by value do not support using nested data for their on value portion. Similarly, nested data cannot be used as the index or primary key of a query table.
	Workaround	Design schemas so that the intended sort field or key is a top-level numeric or timestamp field, as described in StreamBase Pattern Matching Language .
SB-10468	Some SQL queries can fail after reconnecting to the database server.	
	Description	When using the JDBC operator and a JDBC data source, be aware that some SQL queries and operations that succeed after first connecting to the database server can fail after reconnecting following an error. In StreamBase releases before 5.0, StreamBase Server shut down when an error occurred. Starting with 5.0, the server does not shut down on error by default, but the connection between the JDBC operator and the database server is closed when a SQL error is thrown. This means that both the database server and StreamBase Server can continue to throw errors while the connection is closed, for as long as the connection is closed. Reconnection attempts encounter new error conditions, which can cause new queries to fail.
	Workaround	Restore the connection by setting the jdbc-reconnect-regex parameter of the data-source element to .* (period asterisk) in the server's configuration file. For example: <pre><param name="jdbc-reconnect-regex" value=".*" /></pre>
SB-10363	No StreamBase data type corresponding to Sybase timestamp.	
	Description	When used with Sybase data sources, StreamSQL fails to convert timestamps, resulting in type errors. This is because the Sybase timestamp is based on the Sybase varbinary data type.
	Workaround	In StreamSQL code that will be used for Sybase data sources, use the Sybase datetime data type instead of timestamp.
SB-10298	Hierarchical schemas defined in StreamSQL cannot be re-used in StreamBase Studio.	
	Description	StreamBase does not provide a way to share a hierarchical schema between StreamSQL and EventFlow application types.
	Workaround	Use the Named Schemas and Saved Schemas features of Studio.
#73006, SB-7550	Limit on Feed Simulation Editor fields.	
	Description	Very large feed simulations with more than about 160 fields can crash StreamBase Studio when you click the Customize Fields button.
	Workaround	Limit the size of feed simulations or break large simulations into two pieces.
#69299, SB-7446	Starting a StreamBase application fails with a Not enough space error.	
	Description	On small systems, StreamBase may run out of virtual memory during the pre-compilation process. This is reported as a CompilationException: I/O exception: Not enough space error message from the compiler.

StreamBase Release Notes

		StreamBase Server.
	Workaround	Increase the size of your system's paging file.
#65757, SB-7363		Failure-to-load message from the Wombat adapter is found in the Error Log view on Studio startup.
	Description	This error message is a known consequence of loading the Wombat adapter without also co... the Wombat MAMA middleware to be visible to StreamBase.
	Workaround	Follow the instructions in Wombat MAMA Input Adapter in the <i>Adapters Guide</i> to eliminat... error message.
#58027, SB-7170		Module reference sometimes fails to typecheck.
	Description	StreamBase Studio may report a typecheck error on a module reference, with a message sim... Duplicate stream <i>stream-name</i> detected When this message appears, StreamBase Studio refuses to typecheck the module reference a... prevent you from continuing to develop operators downstream, even if the application has n... errors and is runnable by either StreamBase Server or StreamBase Studio.
	Workaround	StreamBase is investigating this limitation. For now, you might be able to work around the... by restructuring the flow of your application, moving the location of the module reference i... graph.
#56829, SB-7148		Invalid byte error when opening EventFlow application.
	Description	Studio sometimes fails to open an EventFlow application with this error: org.xml.sax.SAXParseException: Invalid byte 1 of 1-byte UTF-8 sequence
	Workaround	Perform the following steps to recover: <ol style="list-style-type: none"> 1. Close the EventFlow editor, if it is open. 2. Open the <code>sbapp</code> file in a text editor. For example, in StreamBase Studio, right-click... and choose Open With <code>Text Editor</code>. 3. In the source, find any multi-byte characters that might have been pasted from a mu... source (for example, formatted text that was copied from Microsoft Word into a des... field in an EventFlow Properties view). 4. Remove the multibyte characters or any other characters that might be causing troubl... Typically, the characters to remove will appear as a square box. Replace them with... that you type in manually. 5. Confirm that the application opens in the EventFlow editor (repeat <u>2</u> to reassign tha... EventFlow editor).
#55871, SB-7125		Group labels can appear truncated.
	Description	Group labels longer than 12 characters are truncated and elided if the group is open, and tru... longer than 5 characters if the group is closed.
	Workaround	Pad the end of the group label with space characters to prevent truncation.
#52959, SB-7075		Changing perspectives can rearrange the Studio toolbar.
	Description	The position of toolbar sections can change when you go from perspective to perspective, e... when going from the Authoring to the Demo perspective and back.
	Workaround	Eclipse toolbars do not have fixed locations, so this is expected behavior.
#49739, SB-6984		Actions unavailable when all folders are selected.
	Description	After you collapse a Group in the EventFlow editor, Select All selects all the items in the gr... However, actions performed on the group do not succeed. For example, Delete does not del... items inside a group.

StreamBase Release Notes

	Workaround	Uncollapse the group before performing the action.
#48285, SB-6862		Not all databases have native blob support.
	Description	For example, Microsoft SQL Server and Sybase do not have blob support. For these databases, you can write blobs into varbinary and possibly other types. But when blobs are read from a select statement, they are returned as strings, not blobs.
	Workaround	Add a Map operator and convert the string to a blob.
#36261, SB-6838		Studio 3.x workspaces not compatible with Studio 5.x.
	Description	StreamBase Studio 5.0 introduced a new workspace format that is incompatible with the workspace format from previous releases. Studio 5.0 detects an attempt to use a previous version's workspace format and prevents you from proceeding.
	Workaround	Start Studio 5.0 with a new, empty workspace. Then use Import StreamBase Projects from StreamBase Studio 3.x. See Migrating Studio 3.x Projects .
#35859, SB-6356		Large applications cannot be debugged in StreamBase Studio.
	Description	When running an application in debug mode in StreamBase Studio that contains many operators (in the range of hundreds, including all modules), it is possible to cause Studio to display and log an error message about running out of handles. The error message may vary, but the symptom is that Studio is unable to display all the intermediate streams in the Application Output View or the Manual Input View.
	Workaround	Limit the number of output streams the application will expose when running in debug mode by setting the server's JVM property to include the following: <code>streambase.codegen.intermediate-stream-dequeue-regex=(regex_pattern)</code> For example, setting the JVM arguments to include: <code>-Dstreambase.codegen.intermediate-stream-dequeue-regex=Map\\d</code> allows any intermediate stream that contains the pattern of a Map followed by a digit to be exposed as a dequeueable stream. All other intermediate streams normally available in debug mode will remain available.
#35743, SB-6346		Custom function C++ code typechecking is delayed until the application is generated.
	Description	Most portions of a StreamBase application are typechecked in real time as you add features to an EventFlow or StreamSQL application. However, starting with release 5.0, typechecking for custom function written in C++ is delayed until the application is generated and run.
	Workaround	None. Be aware that typechecking errors may not be reported as usual when using custom C++ functions.
#35429, SB-6327		StreamBase Server cannot run applications that generate class files with too long a name.
	Description	If you use modules, StreamBase can generate internal class names that are too long for the operating system, causing problems running StreamBase Server.
	Workaround	To avoid this problem, use small module reference names and minimize module nesting as much as possible.
#33330, SB-6241		When an application is running in StreamBase Studio on Windows, the Manual Input view and other views can disappear.
	Description	This is a known Eclipse bug. The problem occurs when you use the tab key. Borders around the application, other decorations, and some controls can disappear.
	Workaround	Minimize and then maximize the window, or resize the affected view.

StreamBase Release Notes

#27349, SB-5894	Evaluation exceptions in Data Parallelism key and Subscribe predicate should not be handled by upstream operators.	
	Description	If an evaluation exception occurs for a Data Parallelism key, or in a filtered subscribe predicate, an exception is thrown and caught by the upstream operator, and reported as an error in the upstream operator. One incorrect side effect is that if one predicate in filtered subscribe fails, then predicates that follow it in the list are not executed and tuples are not delivered. Similarly, if other operators fail downstream and only one is set for data parallelism, the other operators may not see tuples. The order in which operators see tuples is effectively non-deterministic.
	Workaround	Either ensure that you do not have errors in the expressions, or use <code>catchexception()</code> wrapper.
#27060, SB-5882	Tuple dimensions do not reset counter when another dimension closes a window early.	
	Description	A tuple-based dimension that closes due to other dimensions (for example, after another dimension times out) does not reset its counter. When this happens, the next window will close based on the number of tuples received, resulting in a partially full dimension.
	Workaround	None.
#26888, SB-5848	Issue with Parameterized Modules and Custom Java Operators or Embedded Adapters.	
	Description	In EventFlow applications, you cannot enter references to parameterized modules in custom operators or embedded adapters. This is due to a GUI limitation, currently under investigation. This prevents you from entering the required values.
	Workaround	Embed your custom Java operator or custom embedded adapter in a StreamSQL-defined module (using the <code>APPLY MODULE</code> statement in the StreamSQL Guide), and use an EventFlow module reference through which you optionally share parameter values.
#26477, SB-5779	SBAPP-to-SSQL Conversion Assistant Resets Module Parameters to Default Values.	
	Description	If you run the SBAPP-to-SSQL Conversion Assistant on an EventFlow application that makes module parameter references, the resulting StreamSQL application does not have any module parameter references. They are replaced by their default values.
	Workaround	After the conversion, edit the StreamSQL file to add the non-default module parameter values.
#26255, SB-5749	Feed Simulation Editor's Data Rate Edit and Save Issue on Linux.	
	Description	In StreamBase Studio, the Feed Simulation Editor lets you set the rate (number of tuples per second) at which data will be generated for a stream. On Linux only, if you use the keyboard to enter an integer in the Data Rate text box, the new value might not be saved.
	Workaround	After clicking into the text box and entering the value, press Enter or change the cursor's focus (for example, press Tab). Then press the Save icon or enter Ctrl+S. Note that if you press Ctrl+S when your cursor is within the Data Rate text box, the new value is not saved. You must press Ctrl+S when the cursor is outside the text box.
#25228, SB-5628	Include Package with Custom Java Functions.	
	Description	If you use a custom Java function (simple or aggregate) with no package, <code>javac</code> returns a compilation error.
	Workaround	Put the function in a package.
#25009, SB-5602, #25004, SB-5599	Embedded Adapters and StreamSQL.	
	Description	In StreamSQL applications, you cannot specify that an embedded adapter should start in a particular state, and you cannot manage the state of a running adapter in a StreamSQL application (although you can with EventFlow applications).
	Workaround	Use an EventFlow application with embedded adapters.
#15898, SB-5078	C++ Custom Aggregate functions cannot return a string.	
	Description	Custom aggregate functions that are implemented in C++ cannot return a <code>string</code> .

StreamBase Release Notes

	Workaround	Create the custom aggregate in Java.
#14807, SB-4951	Problem running large applications in debug mode.	
	Description	Very large applications that run in standard mode may not start in debug mode, with errors like <code>code too large</code> .
	Workaround	Organize the application into smaller modules.
#14763, SB-4937	Problem when tuple in top-level module consumes large amounts of CPU time.	
	Description	If the processing of a single tuple in the top-level module consumes a large amount of CPU time, contained parallel modules that are connected directly to output streams will see their output streams until the tuple/operator releases the CPU and the tuples can be passed to the network.
	Workaround	Put the time-consuming computation into its own parallel module. This workaround may not solve the issue in all cases, because inter-module queues can grow very large, but may help in many cases.
#14745, SB-4931	SBAPP-to-SSQL Conversion Assistant Does Not Support Parallel Operators.	
	Description	If your EventFlow application file has individual operators that are marked for parallel processing, the SBAPP-to-SSQL Conversion Assistant cannot generate equivalent functionality in the generated StreamSQL application because there is no direct analogy for parallel operators in StreamSQL.
	Workaround	After the conversion, if appropriate for your application (no dependencies on data in other operators), you can use an <code>APPLY PARALLEL MODULE</code> statement or <code>APPLY PARALLEL JDBC STATEMENT</code> in the StreamSQL file. For details on the <code>APPLY</code> statement, see the StreamSQL Guide .
#14207, SB-4854	Typecheck problem with DB2 JDBC data sources.	
	Description	SQL <code>INSERT</code> statements submitted to a JDBC data source in a Query operator or in an <code>APPLY JDBC STATEMENT</code> statement may pass typechecking even when they contain errors. This problem was detected when using an IBM DB2 data source. For example, the following statement passes typechecking even if the named table or fields do not exist in the JDBC data source: <pre>APPLY JDBC DB2 "INSERT INTO mytable (id, name) VALUES({id}, {name})" FROM InStream INTO OutStream;</pre>
	Workaround	Run the StreamBase application. If an error occurs against an <code>INSERT</code> statement, verify that the table name is correct. You can validate the <code>INSERT</code> statement by running it against a test database.
SB-4625	Spurious typecheck error when saving changes to a data construct associated with an operator.	
	Description	In some circumstances StreamBase Studio generates a typecheck error with a message to remove a row that you cannot remove because the row is not displayed in the Properties view. This can occur when you have edited a data construct associated with an operator and then attempt to save your changes.
	Workaround	You can work around the typecheck error by forcing StreamBase Studio to reread your changes. In the Properties view, click the Refresh icon, or restart the StreamBase Studio instance, cut and paste an existing row, or change one character and change it back.
#13017, SB-4559	Join timeout is not asynchronous.	
	Description	Join timeout in the Join operator is not asynchronous. That is, the Join operator does not remove a tuple from its buffer until the timeout has passed and another tuple arrives on the same input stream. Tuples received on one input stream do not affect the buffer of the other input stream.
	Workaround	None.
#10674, SB-4225	Some disk drive configurations can corrupt disk-based query tables.	
	Description	Some caching disk drives do not guarantee the sequencing of disk writes, nor do they guarantee that all the writes to the drive have actually happened. This behavior improves disk performance but increases the risk of data corruption in the event of a power outage or equipment failure. StreamBase is vulnerable to this kind of data corruption if your StreamBase application uses disk-based query tables.

StreamBase Release Notes

	Workaround	Disk drives with this behavior usually have a driver-level setting to turn this capability on or off. For example, the driver may present you with a checkbox labeled Enable write caching on the disk properties dialog. Unchecking this box would prevent the problem from occurring.
#10291, SB-4160	JVM crash during StreamBase Application compilation.	
	Description	When StreamBase Server first loads an application, it compiles it to Java code using the Sun Java compiler. Some StreamBase applications can cause the Sun Java compiler to crash during the compilation process. If this happens, StreamBase Server displays a stack trace that mentions <code>OopFlow::build_oop</code> . StreamBase is pursuing this issue with Sun, but in the meantime if you encounter this issue, please contact StreamBase Systems for assistance in modifying your application to avoid the error.
	Workaround	Make slight changes to your application until the error no longer occurs. We are unfortunately unable to provide guidance about what specific changes to make.
#9620, SB-3955	Finding <code>sbdb</code> process failure details.	
	Description	When StreamBase Studio runs an application, it launches the server process in the background. If the server process fails for any reason, Studio tries to report the reason to you. However, the actual error message that Studio displays may not contain enough information, depending on the failure.
	Workaround	To get more information about the reason for the <code>sbdb</code> process failure, open the Eclipse error log for the failure described in Error Log View in the <i>StreamBase Studio Reference</i> .
#8174, SB-3585	Inconsistent support for undo in StreamBase Studio.	
	Description	Many editing operations in Studio cannot be undone. This includes operations such as renaming operators, editing query tables, copying schemas, adding operators from the palette, editing simulations, and so on.
	Workaround	The Revert command in the File menu can be used to undo all changes since the last time a project was saved.
#7361, SB-3308, #2585, SB-1601	From Windows, the <code>custom-simple-function</code> and <code>custom-aggregate-function</code> samples do not work properly with Solaris server or 64-bit Linux server.	
	Description	On Windows, the installed <code>custom-simple-function</code> and <code>custom-aggregate-function</code> samples contain library files (<code>log.so</code> and <code>stdev.so</code> , respectively) that are built for 32-bit Linux. These custom functions will work properly only when StreamBase Studio is connected to a 32-bit Linux server, not a Solaris server or a 64-bit Linux server.
	Workaround	To use the <code>custom-simple-function</code> and <code>custom-aggregate-function</code> samples on a Solaris server: <ul style="list-style-type: none"> • On the Windows or Linux machine where you are running StreamBase Studio, use the StreamBase Samples menu item to import the <code>plugin-function</code> or <code>plugin-aggregate</code> sample into your workspace. • Remove <code>log.so</code> or <code>stdev.so</code> files from the sample project. • Copy <code>/opt/streambase/sample/plugin-function/log.so</code> or <code>/opt/streambase/sample/plugin-aggregate/stdev.so</code> from your Solaris server machine to your Windows client machine. • Use the File Import menu item to import the copied <code>log.so</code> or <code>stdev.so</code> into the sample project.
#7346, SB-3301	Heartbeat and Metronome operators do not respect pause in the debugger.	
	Description	The pause command in the debugger will not prevent Heartbeat and Metronome operators from outputting tuples due to the passage of time. This could cause unexpected results when debugging applications that make use of these operators.
	Workaround	None. For more information about these operators see the Heartbeat Operator and Metronome Operator documentation.

StreamBase Release Notes

#7191, SB-3260	Using non-member Schema.Field to access a tuple does not throw a useful exception.	
	Description	The StreamBase client API does not throw a useful exception if you inadvertently reference Schema while using Schema .Field to access a Tuple. Under C++, no exception is thrown. Under Java, memory corruption may occur. Under Java, an ArrayIndexOutOfBoundsException is thrown. This applies both to using fields from other schemas, or to using the Field objects that were used to create the Schema. Fields that are used to create a schema are not fully initialized, and so you must use the actual Field from the new Schema object in order to access the fields of a Tuple.
	Workaround	None via the API. You must examine your client code and verify that the correct Schema is referenced.
#6860, SB-8698	Aggregate dimensions do not support advance on infinite dimensions.	
	Description	In an Aggregate operator's Properties View, the Dimensions tab includes a setting for Window Policy. One of the size options is Do not close window based on this dimension. If this option is selected, this dimension cannot cause the closing of a new window for the Aggregate. If a new window is never opened, this creates an infinite sized window that never closes (for the life of the StreamBase Server instance). Application designers may set up this feature, for example, to allow an Aggregate to process an entire day's volume of streaming data. However, a limitation of Aggregates with infinite dimensions do not support an Advance value that you set in the Operator Policy.
	Workaround	None.
#6539, SB-3121	Mozilla issue with StreamBase Studio Welcome page and Help.	
	Description	On Linux, the StreamBase Studio Welcome page and Help require that Mozilla or Firefox is installed and can be located. If you removed Mozilla, or installed it in a non-standard location, or modified the path, the Welcome page or Help may not appear.
	Workaround	Before using Studio, set the environment variable MOZILLA_FIVE_HOME to the path of your Mozilla installation. For example, on Linux, set it to: <pre>MOZILLA_FIVE_HOME=/usr/lib/mozilla-<i><version></i> export MOZILLA_FIVE_HOME</pre>
#5400, SB-8640	Java Operator with zero inputs does nothing.	
	Description	While it is not an error to create a Java Operator with zero input ports, the processTuple method will never be called, thus the Java Operator can never emit any tuples.
	Workaround	None.
#5389, SB-2931	Relocatable RPMs install incorrect symbolic links in /usr.	
	Description	The Linux RPM packages are relocatable. This means that the default installation location of /opt/streambase can be changed to a different location. However, if this is done, symbolic links are still installed in /usr/bin and /usr/lib that point to /opt/streambase.
	Workaround	Either edit the symbolic link by hand, or use the tar file instead of the RPMs to install StreamBase on Linux.
#5327, SB-2891	Error messages while creating Java operators lack detail.	
	Description	Any exceptions during the creation of a Java operator from within StreamBase Studio will result in a Can't make new object: (operator name) message, with no additional information.
	Workaround	Run the application in sbd directly for additional diagnostic information. Verify the correct classes are specified in your project's Custom Libraries. Verify the classes are in the JAR files. Verify the manifests of the JAR files are correct. For more information, see Creating Java Clients . The application may have additional diagnostics.
	For Java operators and modules, typechecking may occur regardless of connections.	

StreamBase Release Notes

#4824, SB-2617	Description	Java operators and modules are typechecked independently of their connections to other components. For modules, this may result in errors that do not clearly describe the problem. For example, if you have an application containing a module with its inputs connected, then delete an input stream or module references, and then return to the referencing application, the arc (connection) will be dropped. However the following typecheck message will appear: "Error in referencing application: <input> lacks required attribute 'stream'".
	Workaround	None.
#4451, SB-2507	Java API IOException when client program is suspended.	
	Description	A program using the StreamBase Java API may receive an unexpected IOException if it is suspended (using either Ctrl-Z , or <code>kill -SIGSTOP</code>). The IOException is thrown when the program is resumed, or placed in the background. The exception may be thrown even if there is no network traffic at the time. This issue does not apply to Windows systems.
#4289, SB-2482	Workaround	Do not suspend StreamBase clients written in Java.
	Description	Data sent to multiple streams may get out of order. StreamBase Server does not preserve the relative ordering of input tuples received on different streams. This affects tools such as sbfeedsim , which replays recorded data. It also affects the Java API, if tuples are enqueued to different streams.
#3236, SB-1969	Workaround	In some cases you may be able to use a Merge operator to reorder your input data. However, the Merge operator can block in some situations and therefore may not be appropriate. In general, it is best to avoid sending data to different input streams in the first place, if the relative order of those streams must be preserved.
	Description	StreamBase Studio on Windows triggers Windows firewall when running Server. Users of StreamBase Studio on Windows may find that the Windows Firewall, or a third-party firewall product, prompts for permission to continue when first starting StreamBase Server. The message may refer to javaw or to StreamBase Server by name. This is expected behavior of firewalls. You must grant the requested permission in order to continue using StreamBase Studio on this machine.
#2811, SB-1769	Workaround	After granting permission once, you should not be prompted about this again.
	Description	LockDirectoryException error encountered when starting StreamBase Server. There may be a number of cases when you would encounter the LockDirectoryException error. The message indicates File exists, either another instance of StreamBase Server is currently running, or the prior instance of Server was improperly shut down.
#2414, SB-8297	Workaround	If another StreamBase Server instance is running, change the <code>.sbconf</code> file to point the data directory element (within the <code><server> ... </server></code> element) to a different directory. If there is another Server instance running, you must manually delete the directory named in the File exists message.
	Description	Files edited outside StreamBase Studio are not refreshed in Studio automatically. For <code>.sbapp</code> and <code>.sbfs</code> files that were created using StreamBase Studio and are still open in Studio, modifications made using an external editor are not refreshed in the current Studio Editor session.
#2197, SB-1289	Workaround	If edits are made outside of Studio and you now want to use the latest file, right-click the project in the Studio Editor and select Refresh.
	Description	IPv6 addresses not supported. StreamBase Server can only connect to IPv4 addresses. If you try to connect using IPv6 addresses, the connection is refused.
	Workaround	None.
	Issues with certain Linux kernel versions.	

StreamBase Release Notes

#2048, SB-1164	Description	Linux kernel versions 2.6.8-10 have a known bug in their thread handling code. This bug causes sbd to exit immediately after servicing its first client request. For more information, see http://www.ussg.iu.edu/hypermil/linux/kernel/0410.2/1650.html .
	Workaround	This bug was fixed in Linux kernel 2.6.11. Among the Linux distributions supported by StreamBase, the bug does not affect RHEL 3.0 or SuSE Enterprise Linux 9.0. However, installations of RHEL 3.0 might have one of the problem kernels, depending on the RHEL upgrade level. Set the environment variable <code>STREAMBASE_IGNORE_SIGHUP=1</code> to work around this problem, if you encounter it.
#1838, SB-1039	C++ code is not binary compatible between releases.	
	Description	If you use either the C++ client API, plug-in functions, or plug-in aggregates, you must recompile them from source in order to use them in each new release. Without recompiling, StreamBase will display an error message at runtime: <pre>bin/sbd: error while loading shared libraries: libsbclient.so.4: cannot open shared object file: No such file or directory</pre>
	Workaround	Recompile your C++ code from your original source against the new headers.
#1456, SB-806	Explicitly-provided schema in loops are order sensitive.	
	Description	If you use a loop, the order of the fields in your explicitly-provided schema must match that of the output schema. Otherwise you will get a typecheck error indicating that your explicitly-provided output schema does not match your actual output schema.
	Workaround	Click on the loop arc, then in the Properties view click the option: Update using the detected schema. That StreamBase Studio detected on one of the Union input ports. This action rearranges the order of the explicitly-provided schema to match that of the input schema. You can also manually change the order of the fields using the Properties View for the loop arc.
#1450, SB-804	init.d script uses a hard-coded port number.	
	Description	UNIX only. If you change <code>/opt/streambase/etc/sbd.sbconf</code> to point to a port other than 10000, then the <code>stop</code> , <code>restart</code> , and <code>status</code> commands in the <code>/etc/init.d/streambase</code> script do not work as expected. Those commands assume that sbd is running on port 10000.
	Workaround	Edit the commands in the <code>/etc/init.d/streambase</code> script to use the <code>-p</code> option, to force sbd to run on the same port specified in the modified <code>sbd.sbconf</code> file.
#1395, SB-765	Clients that exceed page limit buffer size disconnect with no explanation.	
	Description	When a StreamBase client exceeds its maximum number of pages (for example, because it's dequeuing fast enough to keep up with the rate at which tuples are being generated), StreamBase Server disconnects the client and prints a message saying that it has done so. However on the client side, no error is reported. Instead, it looks like an unexplained dropped connection.
	Workaround	Edit the server configuration file for the Server that processes your application, and increase the <code>max-client-pages</code> parameter.

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