

Release Bulletin Sybase Event Stream Processor 5.0

Windows

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Accessing Current Documentation

Sybase[®] Event Stream Processor periodically provides online documentation updates. Therefore, more recent versions of your documents may be available on the Web. To check for critical product or document information added after the product release, use the Sybase Product Documentation Web site.

To access documentation at the Sybase Product Documentation Web site:

- 1. Go to Product Documentation at http://www.sybase.com/support/manuals/.
- 2. Select Event Stream Processor.
- 3. Select your version from the Document Set list.
- **4.** Select the link to the document you want to read. For most documents, you can either download the PDF version or browse the document online.

Product Summary

Sybase Event Stream Processor enables you to create and run your own complex event processing applications to derive continuous intelligence from streaming event data in real time.

This release bulletin discusses known issues, workarounds, and late-breaking documentation updates for Sybase Event Stream Processor 5.0.

Note: The current release is referred to as 5.0, but version strings in the installed software indicate 5.0 ESD#2. This ESD is cumulative and provides minor fixes and updates since the initial release of Sybase Event Stream Processor 5.0 and version 5.0 ESD #1. Version 5.0 ESD #2 is a full installation of Event Stream Processor, and replaces the original version 5.0.

For information about supported platforms and operating systems, see the *Installation Guide*.

For information about new features in this release, see the New Features Summary.

For information about accessibility, see Accessibility Features in this release bulletin.

Download Requirements for Separately Licensed Adapters

When you order separately licensed adapters in addition to Event Stream Processor, download only one copy of the Event Stream Processor CD image per platform.

For convenience, the Sybase Product Download Center (SPDC) and the SAP® Service Marketplace (SMP) make the Event Stream Processor CD image available on its own and with each separately licensed adapter. However, when you order separately licensed adapters with Event Stream Processor, you only require one instance of the CD image for each platform you are using. If you are using a single platform, download a single copy of the CD image.

Ensure you download a separate license for each adapter in addition to the license for Event Stream Processor.

Installation and Upgrade

Get last-minute information about installation and upgrading that was omitted from or incorrect in your installation guide, or requires special emphasis.

See the *Migration Guide* for information on migrating from Sybase Aleri Streaming Platform to Sybase Event Stream Processor 5.0.

Sub-capacity Licensing

Sub-capacity licensing refers to licensing a Sybase product on a subset of the CPUs available on a physical machine. Learn about sub-capacity licensing for this version of Event Stream Processor.

Vendor	Product	Platform Support	Virtualization Type
Intel, AMD	VMWare ESX Server* Guest O/ S: Windows	VMWare ESX 3.5, ESX 4.0 and ESX 4.1, Guest OS: Windows 2008 R2, Windows 7, Windows XP	Virtual machine
Intel, AMD	Xen,** DomainU: Win- dows	Windows 2008 R2, Win- dows 7	Virtual machine

Table 1. SySAM Virtualization Sub-capacity Compatibility

* VMWare ESX Server excludes VMWare Workstation, and VMWare Server.

** Xen excludes Sun Solaris x64.

Known Installation Issues

Installation issues for this version of Event Stream Processor.

CR#	Description
668057	If you install Event Stream Processor using InstallAnywhere in the same directory as older Sybase products that also use InstallShield, uninstalling one of the products may make other products unusable because some shared components are removed by the uninstaller.
	If you install Event Stream Processor in the same directory as older Sybase products, do not uninstall.
681675	When starting the SySAM license server, you may receive an error indicating failure to connect to the license server.
	This version of Sybase Event Stream Processor includes both Internet Protocol Version 4 (IPv4) and Internet Protocol Version 6 (IPv6) versions of the Sy- SAM license server software. Use the sysam configuration command to choose the version of the license server based on your environment. By de- fault, the IPv4 version of the license server is configured. This may result in an error if you have previously enabled IPv6 on the license server host.
	You can run both IPv6 and IPv4 on the same host by using the IPv4 address when specifying the SySAM server, rather than the using the host name.
682298	On Windows 7, 64-bit, you cannot uninstall from the console.
	To uninstall, use the graphic uninstaller.
681866	On Windows XP systems, you cannot use the uninstaller to uninstall Event Stream Processor with a valid served license.
	Remove remaining files manually.
682858	The custom installation option in the installer lets you select specific compo- nents to install and does not place restrictions on what you select or clear. As a result, you have the option of installing the Studio only. However, a standalone installation of the Studio cannot compile projects.
	To ensure all your installed instances of the Studio can compile projects, always install the Server with the Studio.

Table 2. Known Installation Issues

CR#	Description
692135	When upgrading from Event Stream Processor 5.0 to Event Stream Processor 5.0 ESD #1, if you install ESD #1 to the same location as version 5.0, the Server, Studio, and adapters are detected as already installed. A message prompts you to uninstall the "Sybase Event Stream Processor 5.0 ESD #1 xxx." This message is incorrect because ESD #1 is not already installed. The message should read "Sybase Event Stream Processor 5.0 xxx." Choose not to uninstall and proceed with the installation.

Known Issues

Learn about known issues and apply workarounds for Sybase Event Stream Processor.

Known Issues for Event Stream Processor Studio

Learn about known issues and apply workarounds for ESP Studio.

CR#	Description
680405	When you convert a project from AleriML to CCL and the project contains Windows file paths, you cannot run the resulting project in Studio Visual Authoring.
	This is because Windows file paths use a single backslash character (\), which the CCL compiler views as an escape character. This condition prevents the project from loading in Studio Visual Authoring. To load the project, manually replace the single backslashes with double backslashes (\\). For example, change C:\Temp\store to C:\\Temp\\store.
680621	If a join has two input connectors and one connector is deleted, the columns belonging to the deleted input connector are not deleted.
	Manually remove the column expressions belonging to the deleted input con- nector.
681508	When defining adapter properties in Studio, you can select a specific file from the file system. Windows file paths include a single backslash (\) as the file separator. However, the CCL compiler views the backslash as an escape character and therefore interprets the path incorrectly.
	Therefore, when working with Windows paths within Studio, manually change the single backslash file separator to a double backslash (\\).

Table 3. Studio Issues

CR#	Description
682399	When using the Connector tool in the Visual Editor, you can connect from a stream or window to a named schema but you cannot connect from a named schema to a stream or window.
682543	Deleting the key column from a named schema does not update the CCL editor. The CCL editor shows the column as a primary key and the project does not compile successfully.
	Inline schema does not cause this problem. Update the project in the CCL editor to compile successfully.
683166	Setting the dir property to configure schema discovery for the File CSV Input and File XML Input adapters fails to set the file property.
	Set the dir property and the file property separately to be able to browse and select the specific file, and then use schema discovery.
690176	When running example projects from the Learning perspective, the Stream View is empty for some streams.
	If you are running a project in the Learning perspective and you are working with a small data set, work around this issue by changing the stream view pulsed subscribe interval value to 0.
	Set the interval back to its default value of 1 before working with any other projects.

Known Issues for Event Stream Processor Server

Learn about known issues and apply workarounds for the Server.

Table 4. Server Issues

CR#	Description
671971	By default, the RSA login uses the "SHA1withRSA" signature algorithm and the "MD5" digest algorithm. If you change the signature and digester methods in the cluster configuration, make the same changes to the SIGN_ALGORITHM and DIGEST_ALGORITHM environment variables.For example, values for the SIGN_ALGORITHM environment variable are "SHA1withRSA" (default), "MD5withRSA", and "SHA1withDSA" (Java only). Possible values for the DIGEST_ALGORITHM environment variable are "MD5" (default) and "SHA1".
674280	Avoid using retention with input windows that use a log store. While the compiler does not flag this as an error, the retention policy on input windows that use a log store may not work as expected after recovery.

CR#	Description
674786	In the case of the ESP Server crashing, if you have a join-based window using a log store, one source window using a log store, and another source window using a memory store and being derived from a window using a log store, the data in the join window is recovered up to the crash, but new records uploaded to the ESP Server do not get joined. When all the source windows use a log store, the same records that are uploaded to the ESP Server get joined.
675321	If you are using an external function that returns a string, do not assign this string to the arena. Otherwise, an unrecoverable error occurs when the Server later tries to release the memory used by the returned string because the memory would have already been released by the Server when the record was processed.
681199	The cluster server appears to start normally if you start the server using a port that is in use by other software. However, the cluster server may behave erratically and report this error when attempting to connect: ERROR - No such handler: Cluster.getPublicKey Use a port that has not yet been used to start the cluster server.
689875	In a multi-node cluster, if the oldest node is a manager and controller combination node, and there is at least one project running, killing this specific node may cause the cluster to become unresponsive. To avoid this issue, do not include a manager and controller combination node in the cluster.

Known Issues for Event Stream Processor Adapters

Learn about known issues and apply workarounds for adapters supported by Event Stream Processor.

CR#	Description
680661	The Platform Input and Platform Output adapters are not supported by Event Stream Processor. The platform_in.cnxml and plat-form_out.cnxml files are included in the install, but are for internal use only.

Table 5. Adapter Issues

CR#	Description
692062	On Windows 32 and 64-bit platforms, Excel does not recognize the SybaseRTP function for the ESP Add-In for Microsoft Excel.
	 In Excel, select Office Button > Excel Options > Add-Ins > Go Click Automation. Select SybaseRTP.Rtp, and click OK. A dialog appears stating "Cannot find Add-In mscoree.dll". Click No.
N/A	Install Microsoft .NET Framework version 2.0 or higher prior to installing the ESP Add-In for Microsoft Excel.

Known Issues for Migration

Learn about known issues for migration and the **esp_aml2ccl** utility.

Table 6. Migration Issues

CR#	Description
684802	The esp_aml2ccl utility converts money into money (4) by default. Man- ually replace all money (4) instances with money in the .ccx file.

Known Issues for CCL

Learn about known issues and apply workarounds for CCL.

Table 7. CCL Issues

CR#	Description
657188	The power() function can process only NULL values of float type.
682005	On Windows 64-bit platforms, invoking the CCL function xmlserialize() causes esp_server.exe to fail.
	This issue does not occur on Windows 32-bit platforms.

Known Issues for SPLASH

Learn about known issues and apply workarounds for SPLASH.

CR#	Description
662913	You can globally define dictionary and vector data structures; however, limit global use to reading them. Only one stream should write to a dictionary or vector data structure; while that stream is writing, no other stream should write to or read from that data structure. The underlying objects used to manage the global dictionary or vector data structures are not thread-safe. A stream must have exclusive access to the global dictionary or vector data structure while writing. Allowing other streams to access these data structures while one stream is writing may result in server failure.
	Additionally, limit the use of these data structures to relatively static data (such as country codes) that are read by multiple streams, but that will not need to be updated during processing. Writing the data to the dictionary or vector must be completed before any streams read it.
	All operations that read a global dictionary or vector should perform an isnull check, as shown here:
	<pre>>typeof(streamname) rec := dict[symbol]; if(not (isnull(rec)) { // use rec }</pre>
693571	SPLASH lets you define "record event" variables such as:
	[integer key1; integer d1; string t1;] var1;
	While you can conveniently reference the individual columns in "var1" using dot notation, you can only do this after the record event variable has been initialized. Once the record event has been initialized, you can access columns directly using dot notation (for example, count := var1.d1; or var1.t1 := 'Tues-day';). If you try to set column values using dot notation before initializing the record event with the bracket notation, the compiler will not flag an error, but the record will not yet exist and the assignment will fail.

Table 8. SPLASH issues

Known Issues for SDKs

Learn about known issues for the .NET SDK.

CR# Description 682112 When using the .NET SDK, to avoid memory leaks when running the example, in the SubsriberExample.cs file located in the \$ESP_HOME/examples/net/SubscriberExample folder, replace: while (!done) event1 = subscriber.get_next_event(espError); switch (event1.getType()) } with while (!done) event1 = subscriber.get_next_event(espError); switch (event1.getType()) event1.release();

Table 9. SDK Issues

Documentation Changes

Read about updates, corrections, and clarifications to the documentation released with Sybase Event Stream Processor.

CR#	Description
N/A	In the section on obtaining a license, the Installation Guide now includes informa- tion on how to obtain a license from the SAP Service Marketplace (SMP).

Table 10. Documentation Changes for the Installation Guide
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CR#	Description
703834	The section on the RAP adapter shows you how to stop the RAP adapter when it is running in the background. The Adapters Guide incorrectly states that you can stop it by entering kill -11 processID in the command line. The correct command is: kill -15 processID
N/A	The section on the JMS adapter shows you how to configure a queuing system for the JMS adapter. It should also mention that, to run the adapter, you must obtain and place vendor specific JMS jar files in the \$ESP_HOME / java folder and restart the Server.

Table 11. Documentation Changes for the Adapters Guide

CR#	Description
680686	The guide should state:
	When you create a duplicate named window or stream in the Visual Editor, then save your file and switch to the Text Editor, a third duplicate of the original stream or window is created. You can see this third duplicate only when you switch back to the Visual Editor.
	Remove this third duplicate:
	1. In the Visual Editor, click Remove all shapes from diagram ⁽²⁾ to clear out all the shapes.
	2. Click Add all shapes 🗈 to get the original stream or window and the second duplicate stream or window back.
	3. Give the duplicate stream window a unique name.
681269	The guide should state:
	Studio returns an error when a project refers to a schema from an imported file but the project compiles without errors.
	Refresh the file by closing the project. Alternatively, create the files in the opposite order.
682387	To redeploy a project after making changes to a running project:
	1. From the Authoring perspective, compile a project and start it.
	2. In the Run-Test perspective, do some work with the project.
	3. Stop the project.
	4. In the Authoring perspective, make changes to the project and the start it. An error displays and the Run-Test console states that a failure occurred because the application already exists. This is because the project still exists on the server in a stopped state.
	5. To redeploy, remove the project from the Run-Test server view, and then start the new version from the Authoring perspective.
702771	The Studio Users Guide incorrectly indicates that the correct format for entering a tooltip comment is:
	//**InsertTooltipCommentHere*/
	The correct format is:
	/**InsertTooltipCommentHere*/

Table 12. Documentation Changes for the Studio Users Guide

CR#	Description
643882	Delta streams are allowed key transformation only when performing aggregation, join, or flex operations. Because a delta stream does not maintain state, you cannot define a delta stream on a window where the keys differ.
683896	This guide documents the <i>argName</i> argument of the CREATE LIBRARY statement as required:
	CREATE LIBRARY libraryName LANGUAGE {C JAVA} FROM file- Name(returnType funcName (argType argName,););
	This is an optional argument, and should be documented as [argName]:
	CREATE LIBRARY libraryName LANGUAGE {C JAVA} FROM file- Name(returnType funcName (argType [argName],););

Table 13. Documentation Changes for the CCL Programmers Guide

Table 14. Documentation Changes for the Administrators Guide

CR#	Description
682458	There are undocumented restrictions on user name and password credentials for the interactive mode of the esp_cluster_admin tool. Credentials may contain alpha numeric characters but must always start with an alphabetic character. For example, password 12345678 is invalid, whereas P12345678 is valid.
682913	References to the "port number used by your Event Stream Processor installation" are referring to the port number of your cluster cache.

CR#	Description
648988	The guide should state:
	In general terms, the return code from a Publish call indicates whether or not the row was successfully transmitted. Any error that occurs during processing on the Event Stream Processor (such as a duplicate insert) will not get returned. The precise meaning of the return code from a Publish call depends on the access mode and the choice of synchronous or asynchronous transmission.
	When using callback or select access mode, the return only indicates whether or not the SDK was able to queue the data. The indication of whether or not the data was actually written to the socket will be returned by the appropriate event. The callback and select access modes do not currently support synchronous publishing.
	When using direct access mode, the type of transmission used determines what the return from the Publish call indicates. If publishing in asynchronous mode, the return only indicates that the SDK has written the data to the socket. If publishing in synchronous mode, the return from the Publish call indicates the response code the Event Stream Processor sent.
	In no case will errors that occur during processing (such as a duplicate insert) be returned by a Publish call.

Table 15. Documentation Changes for the .NET SDK Guide

CR#	Description
682458	There are undocumented restrictions on user name and password credentials for the interactive mode of the esp_cluster_admin tool. Credentials may contain alpha numeric characters but must always start with an alphabetic character. The document also provides an invalid sample password of 1234 .

CR#	Description
697065	The command-line help for esp_convert , esp_upload , and esp_subscribe men- tion options -1 and -2 , which are no longer supported and should not be used. These options have been removed from the documentation.

Obtaining Help and Additional Information

Use the Sybase Getting Started CD, Product Documentation site, and online help to learn more about this product release.

- The Getting Started CD (or download) contains release bulletins and installation guides in PDF format, and may contain other documents or updated information.
- Product Documentation at *http://sybooks.sybase.com/* is an online version of Sybase documentation that you can access using a standard Web browser. You can browse documents online, or download them as PDFs. In addition to product documentation, the Web site also has links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, Community Forums/Newsgroups, and other resources.
- Online help in the product, if available.

To read or print PDF documents, you need Adobe Acrobat Reader, which is available as a free download from the *Adobe* Web site.

Note: A more recent release bulletin, with critical product or document information added after the product release, may be available from the Product Documentation Web site.

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 - e) Select a product.

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Sybase Product and Component Certifications

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To find the latest information about certifications:

- For partner product certifications, go to http://www.sybase.com/detail_list?id=9784
- For platform certifications, go to http://certification.sybase.com/ucr/search.do

Creating a MySybase Profile

MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

- 1. Go to http://www.sybase.com/mysybase.
- 2. Click Register Now.

Accessibility Features

Accessibility ensures access to electronic information for all users, including those with disabilities.

Documentation for Sybase products is available in an HTML version that is designed for accessibility.

Vision impaired users can navigate through the online document with an adaptive technology such as a screen reader, or view it with a screen enlarger.

Sybase HTML documentation has been tested for compliance with accessibility requirements of Section 508 of the U.S Rehabilitation Act. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

Note: You may need to configure your accessibility tool for optimal use. Some screen readers pronounce text based on its case; for example, they pronounce ALL UPPERCASE TEXT as initials, and MixedCase Text as words. You might find it helpful to configure your tool to announce syntax conventions. Consult the documentation for your tool.

For information about how Sybase supports accessibility, see the Sybase Accessibility site: *http://www.sybase.com/products/accessibility*. The site includes links to information about Section 508 and W3C standards.

You may find additional information about accessibility features in the product documentation.