SAP Event Stream Processor: Release Notes for Windows
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1  Accessing Current Documentation

SAP® 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 SAP Help Portal Web site.

Context

To access documentation at the SAP Help Portal:

Procedure

2. 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.
2 Product Summary

SAP 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 SAP Event Stream Processor 5.1 SP09.

For information about supported platforms and operating systems, see the SAP Event Stream Processor: Installation Guide.

For information about new features in this release, see the SAP Event Stream Processor: New Features Summary.
3 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 SAP Service Marketplace (SMP) and the Sybase Product Download Center (SPDC) 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.
4 Security Recommendations

SAP strongly recommends that you enable operating system file access auditing capabilities to monitor and control the access of adapter and server configuration files. This is especially important for files containing passwords.
5 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.

5.1 Sub-capacity Licensing

Sub-capacity licensing refers to licensing an SAP product on a subset of the CPUs available on a physical machine. Event Stream Processor supports sub-capacity licensing through SySAM virtualization.

Table 1: SySAM Virtualization Sub-capacity Compatibility

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Product</th>
<th>Platform Support</th>
<th>Virtualization Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel, AMD</td>
<td>VMWare ESX Server* Guest OS: Windows</td>
<td>VMWare ESX 3.5, ESX 4.0 and ESX 4.1, Guest OS: Windows 2008 R2, Windows 7</td>
<td>Virtual machine</td>
</tr>
<tr>
<td>Intel, AMD</td>
<td>VMWare ESXi Server* Guest OS: Windows</td>
<td>VMWare ESXi 4.1 and 5.0, Guest OS: Windows 2008, Windows 7</td>
<td>Virtual machine</td>
</tr>
<tr>
<td>Intel, AMD</td>
<td>Xen,** DomainU: Windows</td>
<td>Windows 2008 R2, Windows 7</td>
<td>Virtual machine</td>
</tr>
<tr>
<td>Microsoft</td>
<td>Hyper-V: Windows</td>
<td>Windows 2008, Windows 7</td>
<td>Virtual machine</td>
</tr>
</tbody>
</table>

* VMWare ESX Server and ESXi Server support excludes VMWare Workstation, and VMWare Server.
** Xen excludes Solaris x64.

5.2 Known Installation Issues

Installation issues for this version of Event Stream Processor.

Table 2: Known Installation Issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>668057</td>
<td>If you install Event Stream Processor using InstallAnywhere in the same directory as older SAP products that also use InstallShield, uninstalling one of the products may make other products unusable because some shared components are removed by the uninstaller. Workaround: If you install Event Stream Processor in the same directory as older SAP products, do not uninstall.</td>
</tr>
<tr>
<td>CR#</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>707308</td>
<td>When installing ASE 15.0.3 ESD#4 with ESP 5.1 already installed in the same directory, if you execute $SYBASE\SYBASE.bat followed by isql -v, you may receive an error. Workaround: Backup SYBASE.bat before installing ASE 15.0.3 ESD #4.</td>
</tr>
<tr>
<td>715637</td>
<td>When you are installing on Windows over top of an existing Event Stream Processor 5.1 installation, and files from that installation are in use, the installer reboots the system at the end of the installation without warning. Workaround: None.</td>
</tr>
<tr>
<td>760402</td>
<td>When installing the ESP Cockpit agent, the installer prompts for the SCC agent admin password. The requested password is for the ESP Cockpit agent administrator. Workaround: None.</td>
</tr>
</tbody>
</table>
6 Known Issues

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

6.1 Known Issues for SAP Event Stream Processor Studio

Learn about known issues and apply workarounds for ESP Studio.

Table 3: Studio Issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
</table>
| N/A | When performing schema discovery on an SAP HANA database server, discovery fails. This issue occurs if the server contains schemas or tables that contain non-ASCII characters. You do not need to own or have access to the schemas and tables containing the non-ASCII characters. Add the CHAR_AS_UTF8 property to your ODBC DSN entry to allow the ODBC driver to return international characters to the discovery process:  
- In Windows, add a special property using the settings button on your DSN entry in the ODBC data source administrator. |
| 690176 | When running example projects from the Welcome Page, the Stream View is empty for some streams.  
Workaround: If you are running a project from the Welcome Page 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. |
| 745766 | When manually inputting a decimal type that has no integer in SAP ESP Run-Test, the default value shows as .12345 when it should show as 0.12345.  
Workaround: None. The default value of .12345 can be published to a stream or window, and the Stream View can show the default value as 0.12345. |
| 1472013355 | The topic Configuring the Local Cluster for a Remote Connection in SAP Event Stream Processor: Studio Users Guide>Cluster Connectivity in Studio is no longer applicable. Beginning with ESP version 5.1, SP09, the Streaming plugin for SAP HANA Studio (also known as the Event Stream Processor plugin for HANA Studio), does not have the capability to start and run a local ESP cluster. In order to run an ESP project from the SAP HANA studio, you must be connected to an ESP remote cluster. With the standalone ESP Studio, you still have the ability to start and run a local cluster, but you cannot configure the local cluster for a remote connection. |
6.2 \section*{Known Issues for the Event Stream Processor Server}

Learn about known issues and apply workarounds for the ESP Server.

Table 4: Server Issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
</table>
| N/A | You receive a warning message stating that UDFs are disabled on the server.  
Starting in 5.1 SP09, the `enable-udfs` property regulates whether external UDFs are enabled on the ESP Server. By default, this property is set to false and projects with UDFs fail to run successfully.  
\textbf{Workaround:} Use the SAP ESP Cockpit to enable this property. See \textit{Enabling External User Defined Functions} in the \textit{SAP Event Stream Processor: Cockpit Guide} for detailed instructions. |

6.3 \section*{Known Issues for SAP Event Stream Processor Adapters}

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

Table 5: Adapter Issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
</table>
| N/A  | Your project fails to compile.  
\textbf{Workaround:} If your project uses the deprecated File CSV or File XML Input and Output adapters, remove or replace these adapters. For example, you can replace them with the File/Hadoop CSV and File/Hadoop XML Input and Output adapters respectively. The File CSV and File XML adapters were previously deprecated but remained available for backwards compatibility. They are no longer available as of version 5.1 SP09, therefore, projects fail to compile unless these adapters are removed. |
| 650777 | For the Database Input adapter, when data is converted between the database and Event Stream Processor datatypes (numeric) that have different ranges, the JDBC and ODBC drivers may handle these operations differently. For example, the conversion may get rejected or convert into an incorrect value, and so on.  
\textbf{Workaround:} None. |
| 714685 | Java external adapters from Event Stream Processor 5.0 are not compatible with ones from 5.1.  
\textbf{Workaround:} Make the following changes:  
\begin{itemize}  
\item For all Java external adapters, due to changes in authentication types between versions, you can use only LDAP, RSA, or Kerberos (not ticket) authentication types if you want compatibility between 5.0 and 5.1 adapters.  
\item To make the 5.0 external FIX Input adapter compatible with the 5.1 version, add the \texttt{maxPubPoolSize} parameter to the 5.0 file connectors configuration files. This property was optional in 5.0 but is required in 5.1.  
\item If you want to start the 5.0 external FIX Input adapter with the 5.1 configuration file, remove the \texttt{inputBuffer} property from the 5.1 configuration file as this property is not valid in 5.0. 
\end{itemize} |
<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
</table>
| 715811 | When the peer program publishing to the adapter does not close its socket connection cleanly, the adapter’s state becomes DEAD and it no longer accepts connections.  
**Workaround:** Ensure that the publisher issues a “close” on the socket connection before exiting.                                                                                                                                                                               |
| 736995 | When using the Web Services (SOAP) Input and Output adapter, if the return values or parameters of a Web service contain a datatype derived from an ABAP **decimal** datatype, the Axis2 framework throws a RuntimeException error.  
**Workaround:** Convert any ABAP **decimal** datatypes to **string** datatypes, and use **string** datatypes instead of **decimal** datatypes to define a Web service interface.                                                                                      |
| 737158 | If the Web server for the Web Services (SOAP) adapter is using X.509 authentication, it requires four specific properties, but and the **adapter_config.xml** file does not accept two of these properties (javax.net.ssl.keyStore and javax.net.ssl.keyStorePassword).  
**Workaround:** Add 
-Djavax.net.ssl.keyStore=%ESP_ADAPTER_HOME%/bin/wsclient.jks
and 
-Djavax.net.ssl.keyStorePassword=password
to the last command line of the adapter.bat file.  
For example:  
```bash  
%JDK_HOME%/bin/java" %ADAPTER_JAVA_FLAG% "-Duser.dir=%ESP_ADAPTER_HOME%\config" "-Djavax.net.ssl.keyStore=%ESP_ADAPTER_HOME%\bin\wsclient.jks" "-Djavax.net.ssl.keyStorePassword=password" -cp "%ADAPTER_CLASSPATH%" %ADAPTER_CLASS" "%ADAPTER_CONFIG_FILE%" %ADAPTER_COMMAND%  
```
<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
</table>
| 748713 | **For the Socket JSON Input Adapter, the `jsonRootpath` parameter in the cnxml file is marked as required. The `jsonRootpath` is not required for the Socket JSON Output Adapter, which makes the two formats incompatible.**  
**Workaround:**  
1. Edit `toolkit_file_json_input.cnxml` and change this parameter to optional as follows:  
   ```xml
   <Parameter id="jsonRootpath"  
      label="JSON Root Path"  
      descr="Specify a rootpath for the JSON data."  
      type="string"  
      use="optional"  
   />
   ```  
2. Go to `%STREAMING_HOME%\adapters\framework\instances\file_json_input\adapter_config.xml` and delete the word entities from the `rootPath` parameter in the `adapter_config.xml` file so it looks like:  
   ```xml
   <Component type="formatter">  
      <ModuleName>MyJsonInFormatter</ModuleName>  
      <ModuleName>JsonStringToEspFormatter</ModuleName>  
      <ModuleName>MyInStream_Publisher</ModuleName>  
      <Parameters>  
         <JsonStringToEspFormatterParameters>  
            <DateFormat/yyyy-MM-dd HH:mm:ss</DateFormat>  
            <TimestampFormat/yyyy/MM/dd HH:mm:ss</TimestampFormat>  
            <ColumnMappings>  
               <ColsMapping streamname="" rootpath="">  
                  <Column>display_text</Column>  
                  <Column>domain_role</Column>  
                  <Column>offset</Column>  
                  <Column>length</Column>  
               </ColsMapping>  
            </ColumnMappings>  
         </JsonStringToEspFormatterParameters>  
      </Parameters>  
   </Component>
   ```

| 749269 | **In some cases, your web page cannot read JSON data created by ESP using the File JSON Output Adapter.**  
**Workaround:** Manually modify each file created by ESP into a format that your web page can read.

| 751114 | **When using multiple external managed adapters in a project, you cannot implicitly guarantee that they will start in the desired order.**  
**Workaround:** To enforce a specific ordering of external managed adapters, in your CCL, use the `ADAPTER START` statement with the `NOSTART` clause to prevent the adapters from starting with the project. Then, use the `streamingprojectclient` tool to start the adapters in the desired order. You can use a script to automate the command calls, and add short delays as necessary to ensure all adapters are called and started in the correct order.

| 751543 | **When installing the NYSE Adapter on a Windows 64-bit platform, the license agreement page appears again after clicking Next.**  
**Workaround:** Select the geographic location and accept the license terms again; then click Next to proceed.
When subscribing to an ESP project using the Web socket service provider, subscribing to an input window provides unexpected results.

**Workaround:** Subscribe to an output window to receive base data when the project has GD with checkpoint enabled, instead of subscribing to an input window.

### 6.4 Known Issues for CCL

Learn about known issues and apply workarounds for CCL.

Table 6: CCL Issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>657188</td>
<td>The <code>power()</code> function can process only NULL values of float type.</td>
</tr>
<tr>
<td></td>
<td><strong>Workaround:</strong> None.</td>
</tr>
</tbody>
</table>
# 6.5 Known Issues for CCLScript

Learn about known issues and apply workarounds for CCLScript.

## Table 7: CCLScript issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td><strong>If there is a</strong> for <strong>loop present inside a switch</strong> statement in CCLScript, the compiler crashes.</td>
</tr>
<tr>
<td></td>
<td><strong>For example:</strong></td>
</tr>
</tbody>
</table>
|        | CREATE INPUT STREAM NEWSTREAM SCHEMA (Column1 INTEGER);
|        | CREATE FLEX F1 IN NEWSTREAM
|        | OUT OUTPUT WINDOW F1 SCHEMA {Column1 INTEGER} PRIMARY KEY (Column1) KEEP 1 DAY
|        | BEGIN ON NEWSTREAM {
|        |   switch (NEWSTREAM.Column1) {
|        |     case 1:
|        |       for (rec in F1_stream) {
|        |     }
|        |   }
|        | }
|        | **Workaround:** Convert each switch condition into an if statement. For example:                                                                                                                                 |
|        | ```
|        | switch (NEWSTREAM.Column1) { case 1: for (rec in F1_stream) {...} }
|        | ```                                                                                                                                                                                                                           |
|        | becomes                                                                                                                                                                                                                       |
|        | ```
|        | if (NEWSTREAM.Column1 == 1) {for (rec in F1_stream){...}}
|        | ```                                                                                                                                                                                                                           |
| 693571 | **CCLScript lets you define “record event” variables such as:**  
|        | `[ integer key1; | integer d1; string t1; ] var1;`                                                                                                                                 |
|        | **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 fails.** |
|        | **Workaround:** When referencing the individual columns in "var1" using dot notation, first initialize the record event variable. Once the record event has been initialized, you can access columns directly using dot notation (for example, count := var1.d1; or var1.t1 := 'Tuesday').
## 6.6 Known Issues for SDKs

Learn about known issues for the Event Stream Processor SDKs.

### Table 8: SDK Issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
<th>Workaround</th>
</tr>
</thead>
</table>
| N/A  | The .NET SubscriberCallback example crashes when it calls `s_sdk.stop(espError);` | In the example, after
|      |             | `subscriber.disconnect(espError);` |
|      |             | add |
|      |             | `subscriber.close(espError);` |
|      |             | `Thread.Sleep(1000);` |
| 682112 | The .NET SDK example for direct mode subscriber causes memory leaks. | When running the example, in the SubscriberExample.cs file located in the `$STREAMING_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();` |
| 715262 | .NET applications that compiled with the .NET SDK dll in ESP5.0 cannot run in ESP5.1. | Compile the applications with the .NET SDK dll in ESP5.1. |
### 6.7 Known Issues for SAP ESP Cockpit

Learn about known issues for SAP ESP Cockpit.

Table 9: SAP ESP Cockpit Issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>762627</td>
<td>Incremental backups of the repository do not work.</td>
</tr>
<tr>
<td></td>
<td><strong>Workaround:</strong> None.</td>
</tr>
</tbody>
</table>

### 6.8 Known Issues for PowerDesigner Modeling

Learn about known issues and apply workarounds for PowerDesigner modeling.

Table 10: PowerDesigner Modeling Issues

<table>
<thead>
<tr>
<th>CR#</th>
<th>Description</th>
</tr>
</thead>
</table>
| 721684| On Windows 2008 R2, if PowerDesigner was installed to the default directory (system program folder), you will receive the following error when importing CCL into an ESP schema: “There was an error in compiling the given CCL. Please check the log file.”  
This is because the default permission of the system program folder is ReadOnly and therefore, PowerDesigner cannot write CCL into the %“PowerDesigner 16”%\Examples\ESP directory.  
**Workaround:** Add the “Everyone” user to the %“PowerDesigner 16”% folder and give it ReadWrite permission. |
# 7 Documentation Changes

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

Please check the Free Download Terms document for more recent updates to third-party licensing details. The document is at: [http://www.sybase.com/softwarelicenses/third_party_legal](http://www.sybase.com/softwarelicenses/third_party_legal).

For secure transportation setup using SSL between the SAP Event Stream Processor ASE adapter and the ASE database, please see the topic on New Features for SP120 > OpenSSL in ODBC, OLE BD, ADO.NET, Open Client and Open server in New Features Bulletin for Open Server and SDK 15.7 SP121, located [here](http://www.sybase.com/softwarelicenses/third_party_legal).

Table 11: Documentation Changes for the SAP Event Stream Processor: Adapters Guide

<table>
<thead>
<tr>
<th>CR #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>When sandboxing is enabled, the Web Services (SOAP) Input and Output adapter has restricted read and write permissions. The description for the workingDir property should state that you need to specify the <code>&lt;sandbox-base-directory&gt;/adapters/&lt;workspace-name&gt;</code> or <code>$STREAMING_HOME/adapters/webservices</code> directory or one of their subdirectories. If a different directory is specified, the adapter will not be able to successfully connect to Event Stream Processor. This correction is applicable to the Web Services (SOAP) Input Adapter Configuration and Web Services (SOAP) Output Adapter Configuration topics within the SAP Event Stream Processor: Adapters Guide &gt; Adapters Currently Available from SAP &gt; Web Services (SOAP) Input and Output Adapter &gt; Unmanaged Mode Configuration &gt; Web Services (SOAP) Input Adapter Configuration section.</td>
</tr>
<tr>
<td>71574</td>
<td>The default setting for UTF-8 is false, rather than true. You can manually change the setting to true. The UTF-8 setting is described in the Project Deployment Options and Editing Advanced Options in Project Configuration topics within the SAP Event Stream Processor: Configuration and Administration Guide &gt; Managing Your Streaming Cluster &gt; Deploying a Project to a Cluster section, and the Supported Datatypes topic within the SAP Event Stream Processor: Adapters Guide &gt; Adapters Currently Available from SAP &gt; Replication Server Adapter section.</td>
</tr>
<tr>
<td>CR #</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 1472013355 | The EspMultiStreamPublisher supports these three parameters which are not specified in the documentation:  
  - MaxPubPoolSize  
  - MaxPubPoolTime  
  - UseTransactions  
  These parameters are described in detail in the *EspPublisher Configuration* topic in the SAP Event Stream Processor: Building Custom Adapters > Event Stream Processor Adapter Toolkit > EspConnector Modules section. The behavior is the same for both the EspMultiStreamPublisher and EspPublisher.  
  Configuration information for the EspMultiStreamPublisher is located in the EspMultiStreamPublisher Configuration topic within the SAP Event Stream Processor: Building Custom Adapters > Event Stream Processor Adapter Toolkit > EspConnector Modules section. |

<table>
<thead>
<tr>
<th>CR #</th>
<th>Description</th>
</tr>
</thead>
</table>
| 71574      | The default setting for UTF-8 is false, rather than true. You can manually change the setting to true.  
  The UTF-8 setting is described in the *Project Deployment Options and Editing Advanced Options in Project Configuration* topics within the SAP Event Stream Processor: Configuration and Administration Guide > Managing Your Streaming Cluster > Deploying a Project to a Cluster section, and the Supported Datatypes topic within the SAP Event Stream Processor: Adapters Guide > Adapters Currently Available from SAP > Replication Server Adapter section. |

<table>
<thead>
<tr>
<th>CR #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1472013355</td>
<td>The topic Configuring the Local Cluster for a Remote Connection in SAP Event Stream Processor: Studio Users Guide &gt; Cluster Connectivity in Studio is no longer applicable. Beginning with ESP version 5.1, SP09, the Streaming plugin for SAP HANA Studio (also known as the Event Stream Processor plugin for HANA Studio), does not have the capability to start and run a local ESP cluster. In order to run an ESP project from the SAP HANA studio, you must be connected to an ESP remote cluster. With the standalone ESP Studio, you still have the ability to start and run a local cluster, but you cannot configure the local cluster for a remote connection.</td>
</tr>
</tbody>
</table>
8 Obtaining Help and Additional Information

Use the Product Documentation site and online help to learn more about this product release.

- SAP Product Documentation at [http://help.sap.com/](http://help.sap.com/) – online documentation that you can access using a standard Web browser. You can browse documents online, or download most of them as PDFs. Some products have links to additional resources, such as how-to videos and SAP Community Network (SCN) spaces.
- 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 SAP Help Portal.

8.1 Technical Support

Get support for SAP® products.

If your organization has purchased a support contract for this product, then one or more of your colleagues is designated as an authorized support contact. If you have any questions, or if you need assistance during the installation process, ask a designated person to contact Technical Support as specified in your contract:

- SAP Technical Support
- Sybase Technical Support or the Sybase subsidiary in your area

Customers with an SAP support contract can obtain support for this product at the SAP support site, [http://service.sap.com/sybase/support](http://service.sap.com/sybase/support). You can also find information about Sybase support migration at this location (login may be required).

Customers with a Sybase support contract can obtain support for this product at [http://www.sybase.com/support](http://www.sybase.com/support) (login required).

8.2 Downloading Product Updates

Get maintenance releases, support packages and patches, and related information.
Procedure

- If you ordered your product under an SAP contract:
  a. Go to [https://support.sap.com/patches](https://support.sap.com/patches) and log in if prompted.
  b. Select A-Z and browse to your product.
  c. Select ESP 5.1.
  d. Select your operating system.
  e. At the bottom of the page, choose the support pack, patch, or maintenance release you want to download.
     Each support pack contains a full installation of SAP Event Stream Processor.
- If you purchased the product directly from Sybase or from an authorized Sybase reseller:
  b. Select [Support] [EBFs/Maintenance](http://www.sybase.com/support)
  c. If prompted, enter your MySybase user name and password.
  d. (Optional) Select a filter, a time frame, or both, and click [Go].
  e. Select a product.
     Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as an authorized support contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click [My Account](http://www.sybase.com/support) to add the “Technical Support Contact” role to your MySybase profile.
  f. Click the [Info](http://www.sybase.com/support) icon to display the EBF/Maintenance report, or click the product description to download the software.
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