Release Bulletin
New Era of Networks Process Server
Version 3.6.1
for Solaris, Windows NT/2000, AIX, HP

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1. Accessing current release bulletin information

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1   Go to Product Manuals at http://www.sybase.com/support/manuals/.

2   Follow the links to the appropriate New Era of Networks product.

3   Select the "Release Bulletin" collection for the product version you are interested in.

4   You can either download the PDF version or browse the document online.

2. Product summary

This version contains the fixes provided in the 3.6 EBF release. For details on system requirements and platform information, see the installation guide for your platform.

This release bulletin provides the latest information about New Era of Networks Process Server and known software problems or documentation updates and clarifications.

3. Special installation instructions

This section provides information for installing New Era of Networks Process Server that is not included in the installation guide.

3.1 Install Adobe Acrobat Reader 5.0

The New Era of Networks Process Server documentation is supplied in pdf files. To view the documentation, you must install Adobe Acrobat Reader, version 5.0 from the Technical Library CD or the Adobe web site at http://www.adobe.com. You must upgrade to this version if you currently have Reader 4.0.

❖ **To install on Windows:**

1   Open the acrobat\win directory on the Technical Library CD.

2   Double-click the ar50eng.exe file.

❖ **To install on AIX, HP-UX, or Solaris**

1   Open the applicable platform folder under the acrobat directory on the Technical Library CD.

2   Follow the instructions in the INSTGUID.TXT file.

3.2 Known installation issues

This section describes known problems or issues that you may encounter during the installation process.

3.2.1 HP mount commands

Problem: The mount command for HP-UX 11.00 has problems with file systems that have files with names longer than 31 characters.

Resolution: There are specific mount commands in the Server Installation chapter of the *Installation Guide*.

3.2.2 AIX and HP product availability

The Process Server Web Services Process Connector and Process Server Web Services Process Translator are not available in the release. They are displayed as available products in the installer but are not installed if selected. These products will be made available soon.

3.2.3 Start command for CIM repository

Because the command to start the central repository is similar to a DOS command, the command must be prefaced with dot-slash.

To start CIM repository on Windows:

```
> cd %installdir%\CIMRepository-3_0_0\bin

> .\start.bat
```

To start CIM repository on UNIX:

```
% cd $installdir$/CIMRepository-3_0_0/bin

% ./start.sh
```

3.2.4 Warning message after AIX install

Problem: The Installation Summary window may display a warning message that the "File system expansion hit duplicate partition name. Overriding and continuing."

This is just a warning message. Nothing is done to the partitions when this warning occurs.

3.2.5 Multiple installation issue

Problem: Machine hangs after multiple occurrences of running the installer on Windows and Solaris machines. The <prodInstall>_log.txt files grow to an excessive size after multiple installations are performed.

Workaround: Remove or rename the following files after each successful installation:

/<installdir>/nnsy/install_log.txt

/<installdir>/shared-1_0/StandardExtensions_log.txt

/<installdir>/shared-1_0/ThirdParty_log.txt

/<installdir>/shared-1_0/ConfigUtils_log.txt

/<installdir>/shared-1_0/JRE_1_3/JRE_1_3-log.txt

3.2.6 Authorized user performing Solaris database install

Problem: After Solaris installation, the only user who can use inst_db is the user who installed the application.

Workaround: Change the file permissions on $NNSY_ROOT/install.sql_epe36/tmp to include write permission for owner and group.

3.2.7 Errors due to multiple PATH settings

Problem: New Era of Networks Process Server executables report "Invalid MessageID" in error messages. The executables currently expect a single PATH in the NNSY_CATALOGUES statement. If the process server is installed multiple times on the same NT machine, new PATHs are appended to the NNSY_CATALOGUES variable.

Workaround: After installation, ensure that NNSY_CATALOGUES only contains a single PATH, with no leading or trailing semicolons.

3.2.8 Windows installation of the repository

Problem: On Windows, if you install the CIM Repository under a directory with a space in its name, stoprepository.bat file does not work.

Workaround: To stop the repository, right click on the ASA icon on the Toolbar, then click on exit.

To restart the repository, use start.bat.

4. Changed functionality in this version

See the New Era of Networks Process Server *Feature Guide* for descriptions of new and changed functionality.

5. Known problems

The following sections describe known problems and workarounds for New Era of Networks Process Server.

5.1 Uninstall issues

5.1.1 Automatic selection of features

Problem: Although it appears that automatic selection of components to uninstall is being performed, it is not currently working correctly.

Workaround: Verify that all products to be deleted are displayed on the Feature Select summary window. If they are not, return to the selection window and manually de-select and re-select the products you want to uninstall.

5.2 Engine

This section discusses known problems with messages entering the EPEEngine.

5.2.1 SQLStatement objects as attributes

Issue #: 254607

Problem: When SQLStatement objects are used as process level attributes, they cannot be streamed. This is a problem when EPEEngine is shutdown and the process, that uses SQLStatement as a process level attribute, has not completed:

Workaround: If you are going to use SQLStatement, then declare a variable of type SQLStatement in the task's action block. Do not declare a process attribute of type SQLStatement.

5.2.2 Date parsing

Problem: Incoming messages with a two-digit year representation do not convert to the proper century. An incoming date of 021804 would be translated as 1904-02-18.

Workaround: Either use 4-digit representations for the year or include the following information in your edl.

actions:

```
integer myyear = two_digit_year.year()

if (myyear <= 1950)

{ myyear = myyear + 100 }

two_digit_year  = myyear.toString() + "-" +
      two_digit_year.toStringFormatted("%m-%d")
```

Change the pivot year (myyear <= 1950) to a year that will be considered the pivot point between the 20th and 21st century. The logic behind it is that any two digit year below or equal to 1950 (00-50) will be recognized as in the 21st century (2000-2050). Any above (51-99) are in the 20th (1951-1999).

5.2.3 Parsing NCM messages

Issue #: 265474

Problem: When Process Server uses the NDO-NCF to parse NCF messages (NCMPrefix and NCMRepositoryDir are set in nnsyreg.dat), a bogus error message is generated saying that the NCM file could not be found. However, the NCM file is found later in the search process and therefore, there should be no error.

The search for the file is based on current structure for the name and location of the .ncm file (as specified by the NNRepositoryDir and NCMPrefix values in the nnsyreg.dat file.) The parser therefore uses the following structure to locate the file:

NNRepositoryDir/NCMPrefix/<object>.ncm

Since few files have been created at this time using this configuration specification, the parser also looks for the file based on the following information:

NNRepositoryDir/NCMPrefix/<Prefix>.IC.<object>.ncm

Workaround: Ignore the error messages. Begin updating from the previous naming conventions for.ncm files to the current naming convention.

5.2.4 Error message thrown by EPEEngine

Issue #: 263887

Problem: While running the epeengine, it logs the following message several times:

 2001-11-02 14:41Er:18.326|epeengine|2776|2356|Database Session|NNOT_EC_NATIVE_API_ERROR|Unknown|A database API call failed.

Workaround: The operation of the engine is not affected. This message is an informational type message.

5.3 Process Designer GUI

This section discusses known problems with the Process Designer GUI.

5.3.1 Duplicating an Event or Task

Issue #: 262097

Problem: A Copy/Paste of Events and Tasks in a Diagram produces undesirable and non-consistent results. Once you change the name of the new copy, the original disappears from the tree. Because the name of the second event has transferred to the original, if you attempt to rename the original back to the original name, the gui crashes with a runtime error. The same seems to be true with tasks.

Workaround: Create a new event, and then copy and paste the attributes from another event into the new event.

5.3.2 Changes to event set in database not recognized by GUI

Issue #: 264021

Problem: If an event set is changed in the database (using EDLUtil), and a business process that imports this event set is repackaged in the GUI, it will not pick up changes to the event set. The only time that changes are picked up is if something in the business process is modified using Process Designer (such as a task), and then "Save Changes" is selected.

Workaround: Make some modification to the business process and then remove the modification. (For example, add a task and then delete that task.) Save the changes to the process. Since the system thinks that the process has changed, the business process will be repackaged, thereby picking up the database changes to the eventset.

5.4 Open Transport

This section discusses known problems or differences with transports.

5.4.1 Transaction management with MQ Series

Problem: IBM's MQ Series 5.1 XA Transaction Management facility is currently not functional in a threaded environment on Solaris. New Era of Networks has opened a PMR with IBM to address this issue.

Workaround: The nnsyreg.dat entry for the OTContext must have the following entry:

NNOT_CTX_EMULATE_TM = TRUE

NNOT_CTX_TMID must be commented out.

5.4.2 Transactionality with CTS Driver

Issue: OT exposes a transactional interface: start transaction, commit transaction, rollback transaction. The underlying transport drivers that are abstracted by OT: MQSeries, EMQ and MSMQ all have transactional interfaces as well. They are also XA compliant resources and can participate in a two phase commit coordinated transaction. The transactional interfaces of the transport drivers are wrapped within the OT transactional interface.

The CTS transport is an exception and does not have a transactional interface. It has a request/acknowledge interface. It is also not an XA compliant resource. When a reader wants to read a message off a CTS queue, it makes a request of CTS. When CTS gets this request, it sets a timer. After the reader successfully reads the message, the reader sends CTS an acknowledgement. When CTS receives the acknowledgement, it removes the message from the queue and cancels the timer. OT makes use of this request/acknowledge capability and wraps it in its own transactional interface. So, although CTS does not have a transactional interface, OT makes this transparent by hiding the CTS request/acknowledge interface within the OT transactional interface.

Problem: Process Server expects its transport and database resources to be XA compliant. In the case of CTS, Process Server cannot coordinate a transaction with it and a transaction with the database as a single unit of work. (Process Server writes its state to a runtime database so that it can recover itself.) This means that there is a small possibility that Process Server could read a message off the queue, shut down, and when it recovers, the same message will be sitting on the queue. In other words, there is the small possibility of duplicate messages.

Workaround: If the user is using CTS as a transport, write EDL that detects the duplicate message condition and ignore duplicates.

6. Documentation updates and clarifications

This section describes changes to the following document:

•   Event Definition Language (EDL) Guide

6.1 Event Definition Language (EDL) Guide

This section discusses updates and clarifications for the *EDL Guide*.

6.1.1 SetRelativeTimerByDate Syntax

The parameters for SetRelativeByDate and SetRelativeByDateTime are presented in the wrong order on page 105 of the EDL Guide. The parameters should be written as follows.

For SetRelativeByDate:

system string SetRelativeTimerByDate (intevent, integer hours, integer minutes, integer seconds)

For SetRelativeByDateTime:

system string SetRelativeTimerByDateTime (integer seconds, integer minutes, integer hours, integer days, integer months, integer years, event)

6.1.2 Binary data types

The binary data type is used to represent binary data in an ASCII-encoded format (note that this is the hexadecimal notation of the ASCII characters). This data is prefaced with the characters '0x'. The number of digits following the '0x' is expected to be an even number; an odd number of digits is a mis-formed binary data type and will not be allowed.

There is currently no operator support for binary data types (such as: >,<,=for comparison(assignment is supported)). If binary values need to be compared, they can be compared for equality only by using the toHexString() method which will perform a string comparison.

6.1.3 PutEventInternal

Example using setOptStr( ) method and PutEventInternal:

This example demonstrates getting the value of a message option from an input event and setting a message value on a newly declared event.

```
process P1


{
...
  Task1
  {
      preconditions:
          Event1
      actions:
          P1::Event1 newEvent
          newEvent = Event1


          string oldValue = Event1.getOptStr("OPT_MSG_TYPE")
          string newValue = "my new msg type value"
          //
          // Event1 had an existing value for the OPT_MSG_TYPE option
          // stored in "oldValue".
          // Now overwritethat value with "newValue".
          //
          newEvent.setOptStr("OPT_MSG_TYPE", newValue)


          //
          // Now Send back into the Engine
          //
          PutEventInternal(newEvent)
```

7. Technical support

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you have any questions about this installation or if you need assistance during the installation process, ask the designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

If you have a Technical Support contract and are located in the United States or Canada, call 1.800.8SYBASE.

Outside North America, contact your local Sybase office.

For a listing of local support center numbers, refer to online resources from the following web site.

Internet site at http://www.sybase.com/support

8. Other sources of information

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- Technical Library CD contains product manuals and is included with your software. The DynaText browser (downloadable from Product Manuals at http://www.sybase.com/detail/1,3693,1010661,00.html) allows you to access technical information about your product in an easy-to-use format.

  Refer to the *Technical Library Installation Guide* in your documentation package for instructions on installing and starting the Technical Library.

- Technical Library Product Manuals Web site is an HTML version of the Technical Library CD that you can access using a standard Web browser. In addition to product manuals, you'll find links to the Technical Documents Web site (formerly known as Tech Info Library), the Solved Cases page, and Sybase/Powersoft newsgroups.

  To access the Technical Library Product Manuals Web site, go to Product Manuals at http://www.sybase.com/support/manuals/.

8.1 Sybase certifications on the Web

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❖ **For the latest information on product certifications**

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    http://www.sybase.com/support/techdocs/.

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3   Select a product name from the product list.

4   Select the Certification Report filter, specify a time frame, and click Go.

5   Click a Certification Report title to display the report.

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3   Specify a time frame and click Go.

4   Select a product.

5   Click an EBF/Update title to display the report.

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2   Click MySybase and create a MySybase profile.

9. Other sources of information

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Access the Sybase Product Manuals Web site at
http://www.sybase.com/support/manuals/.