

Tivoli Event Pump for z/OS
Version 4.2.2

Release Notes



Note

Before using this information and the product it supports, read the information in “Notices” on page 11.

This edition applies to Version 4.2.2 of IBM Tivoli Event Pump for z/OS (product number 5698-B34) and to all subsequent versions, releases, and modifications until otherwise indicated in new editions.

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New and changed functions for Tivoli Event Pump for z/OS Version 4.2.2

IBM® Tivoli Event Pump for z/OS Version 4.2.2 includes the following new and changed features:

- New data sources, including the following sources:
 - BMC MAINVIEW data sources: MainView for z/OS®, MainView for CICS®, MainView for DB2®
 - SMS resource monitoring that provides SMS message and exception monitoring
 - JOBLOG monitoring that extends message management by using JES spool application log files. The Tivoli® Event Pump for z/OS program supports messages from the system console. It also supports messages in the JES output data sets to which every job writes during the application processing. Applications that write to application logs include state and status information that can help in showing the state and status of these applications in IBM Tivoli Netcool/OMNIBus or IBM Tivoli Business Service Manager (TBSM).
 - These items that were previously made available as a Version 4.2.1 interim feature:
 - IBM Tivoli AF/OPERATOR on z/OS data source
 - MAINVIEW AutoOPERATOR
- Additional data source customizer enhancements, including support for an %INCLUDE statement in the monitor member and support for user-supplied variables
- Enhanced logging to improve problem analysis in JOBLOG monitoring and the data source customizer
- Merging of the source collector and event distributor address spaces to make implementation of the Tivoli Event Pump for z/OS program faster and simpler by shortening the path length and eliminating cross-address-space communication

Netcool/OMNIBus components installation and configuration

The following Tivoli Event Pump for z/OS components are used for z/OS event processing on a Netcool/OMNIBus server:

- Tivoli EIF probe
- Schema
- EIF probe rules

The Tivoli EIF probe, schema, and probe rules are located on the *IBM Tivoli Event Pump for z/OS Probe Rules DVD*, LCD7-3512. Before you install these components, review the following installation prerequisites and update the Netcool/OMNIBus server as required:

1. The Netcool/OMNIBus server where you plan to install the EIF probe has the Probe Support feature and a Java Runtime Environment. These are installed when you select the Confpack option during the installation of the Netcool/OMNIBus server.
2. The following environment variables are set:

`NCHOME=install_dir`

For information about the Probe Support feature and the Confpack option, see the *IBM Tivoli Netcool/OMNIBus Installation and Deployment Guide*.

To install probes, components, and probe rules, follow these procedures:

- “Installing probes”
- “Copying files from the installation DVD” on page 5
- “Installing the schema updates” on page 5
- “Configuring the Netcool/OMNIBus ObjectServer” on page 6
- “Installing and configuring the EIF probe rules” on page 7

Installing probes

All probes are installed in a similar way. The process involves downloading the appropriate installation package for your operating system, installing the appropriate files for the version of Netcool/OMNIBus that you are running, and configuring the probe to suit your environment.

The installation process consists of the following steps:

1. Download the installation package for the probe from the Passport Advantage® Online web site. Each probe has a single installation package for each operating system supported. For details about how to locate and download the installation package for your operating system, visit the following page on the IBM Tivoli Information Center:
http://publib.boulder.ibm.com/infocenter/tivihelp/v8r1/index.jsp?topic=/com.ibm.netcool_OMNIBus.doc/probes/install/wip/out-html/reference/install_download_intro.html
2. Install the probe using the installation package. The installation package contains the appropriate files for all supported versions of Netcool/OMNIBus. For details about how to install the probe to run with your version of Netcool/OMNIBus, visit the following page on the IBM Tivoli Information Center:

http://publib.boulder.ibm.com/infocenter/tivihelp/v8r1/index.jsp?topic=/com.ibm.netcool_OMNIBus.doc/probes/install/wip/out-html/reference/install_install_intro.html

3. Configure the probe. This guide contains details of the essential configuration required to run this probe. It combines topics that are common to all probes and topics that are specific to this probe. For details about additional configuration that is common to all probes, see the IBM Tivoli Netcool/OMNIBus Probe and Gateway Guide (SC23-9684).

Installing the Tivoli EIF probe on Tivoli Netcool/OMNIBus 7.2.1 and earlier

In a Windows environment, follow these steps to install the EIF probe:

1. Insert the DVD into the a drive. The LaunchPad starts automatically.
2. Select Run the Tivoli EIF probe installation program and follow the instructions for probe installation.

In a UNIX or Linux environment, follow these steps to install the EIF probe:

1. Issue this command from the root directory of the DVD to start the LaunchPad:
launchpad.sh
2. Select Run the Tivoli EIF probe installation program and continue with the probe installation.

Note: Usage note for Linux on zSeries[®]: Upload the executable file probe-zlinux.bin from the bin directory of the DVD. After you have uploaded the file, run it.

Installing the Tivoli EIF probe on Tivoli Netcool/OMNIBus 7.3.0 or later

In a Windows environment, follow these steps to install the EIF probe:

1. Download the Windows installation package for the Tivoli EIF probe from the Passport Advantage Online Web site:
http://www-306.ibm.com/software/howtobuy/passportadvantage/pao_customers.htm
2. Extract the contents of the package to a temporary location.
3. Run the following command to invoke the wizard installer:
%NCHOME%\omnibus\install\nci_install_integration

After accepting the license terms, the installer will prompt you for the location of the probe. Enter the temporary extract directory. Proceed to complete the installation. Run the following command to invoke the console installer:

```
%NCHOME%\omnibus\install\nci_install_integration -i console
```

To invoke the silent installer, create a file called response.txt with the following contents.

```
LICENSE_ACCEPTED=true  
PROBE_OR_GATE_LOCATION=<ABSOLUTE PATH to temporary directory>
```

Then run the following command:

```
%NCHOME%\omnibus\install\nci_install_integration -i silent -f  
<ABSOLUTE PATH to response.txt>
```

In a UNIX or Linux environment, follow these steps to install the EIF probe:

1. Download the UNIX or Linux installation package for the Tivoli EIF probe from the Passport Advantage Online Web site:
`http://www-306.ibm.com/software/howtobuy/passportadvantage/pao_customers.htm`
2. Extract the contents of the package to a temporary location.
3. Run the following command to invoke the wizard installer:
`$NCHOME/omnibus/install/nco_install_integration`

After accepting the license terms, the installer will prompt you for the location of the probe. Enter the temporary extract directory. Proceed to complete the installation.

Run the following command to invoke the console installer:

```
$NCHOME/omnibus/install/nco_install_integration -i console
```

To invoke the silent installer, create a file called `response.txt` with the following contents:

```
LICENSE_ACCEPTED=true  
PROBE_OR_GATE_LOCATION=<ABSOLUTE PATH to temporary directory>
```

Then run the following command:

```
$NCHOME/omnibus/install/nco_install_integration -i silent -f  
<ABSOLUTE PATH to response.txt>
```

Refer to the Tivoli Netcool® OMNIBus Probe for Tivoli EIF and Tivoli Netcool/OMNIBus Event Integration Facility Reference documentation for more information about installation and configuration of Netcool/OMNIBus probes.

Copying files from the installation DVD

Before you update the Netcool/OMNIBus schema or install the EIF probe rules, copy the required files from the installation DVD to your Netcool/OMNIBus server.

In a Windows environment, change to the `zEventPump` directory, and then run the `zOSEventSupport_copy.bat` file to copy the files.

In a UNIX or Linux environment, change to the `zEventPump` directory, and then run the `zOSEventSupport_copy.sh` file to copy the files.

The files are copied to the `EventPump` directory, under the `%NCHOME%\omnibus\etc` directory for the Windows environment or the `$NCHOME/omnibus/etc` directory for UNIX or Linux environment. If the `EventPump` directory does not exist, the directory is created.

Installing the schema updates

The Netcool/OMNIBus component for z/OS support includes the following updates to the ObjectServer components:

- Additional columns for z/OS specific data
- A lookup table for setting the message severity and state for z/OS events
- Triggers for performing this lookup function and for processing message and resolution (clearing) events

In a Windows environment, follow these steps to install the schema updates for z/OS events on a Netcool/OMNIBus ObjectServer:

1. On the Netcool/OMNIBus server, change to the %NCHOME%\omnibus\etc\EventPump directory.
2. Update these parameters in the zOSEventSupport_sql.bat file for your environment:

server	Netcool/OMNIBus ObjectServer
user	A user ID to log onto the indicated server
password	A password to log onto the indicated server
sql	An SQL file zOSEventSupport.sql that must be run

The batch file attempts to connect to the indicated object server, using the supplied user ID and password.

3. Run the zOSEventSupport_sql.bat file. The Netcool/OMNIBus ObjectServer must be started to apply these schema changes.

In a UNIX or Linux environment, follow these steps to install the schema updates for z/OS events on a Netcool/OMNIBus ObjectServer:

1. On the Netcool/OMNIBus server, change to the \$NCHOME/omnibus/etc/EventPump directory.
2. Update these parameters in the zOSEventSupport_sql.sh file for your environment:

server	Netcool/OMNIBus ObjectServer
user	A user ID to log onto the indicated server
password	A password to log onto the indicated server
sql	AN SQL file to be run (specify zOSEventSupport.sql)

Using the supplied user ID and password, the .sh file attempts to connect to the indicated object server.

3. Run the zOSEventSupport_sql.sh file. The Netcool/OMNIBus ObjectServer must be started to apply these components changes.

Configuring the Netcool/OMNIBus ObjectServer

To support the processing of z/OS events by Netcool/OMNIBus, a modified version of the *deduplication trigger* (named `zos_deduplication`) was added when the `zOSEventSupport.sql` file updated the `alerts.status` schema. This trigger contains a WHEN expression that allows it to only process events that are defined as z/OS events.

It is important to protect the standard deduplication trigger so that it does not process z/OS events. To do this, modify the deduplication trigger definition and add a WHEN expression that can filter out any z/OS events.

Figure 1 on page 7 illustrates the use of the Netcool/OMNIBus administrator to add this WHEN expression to the deduplication trigger:

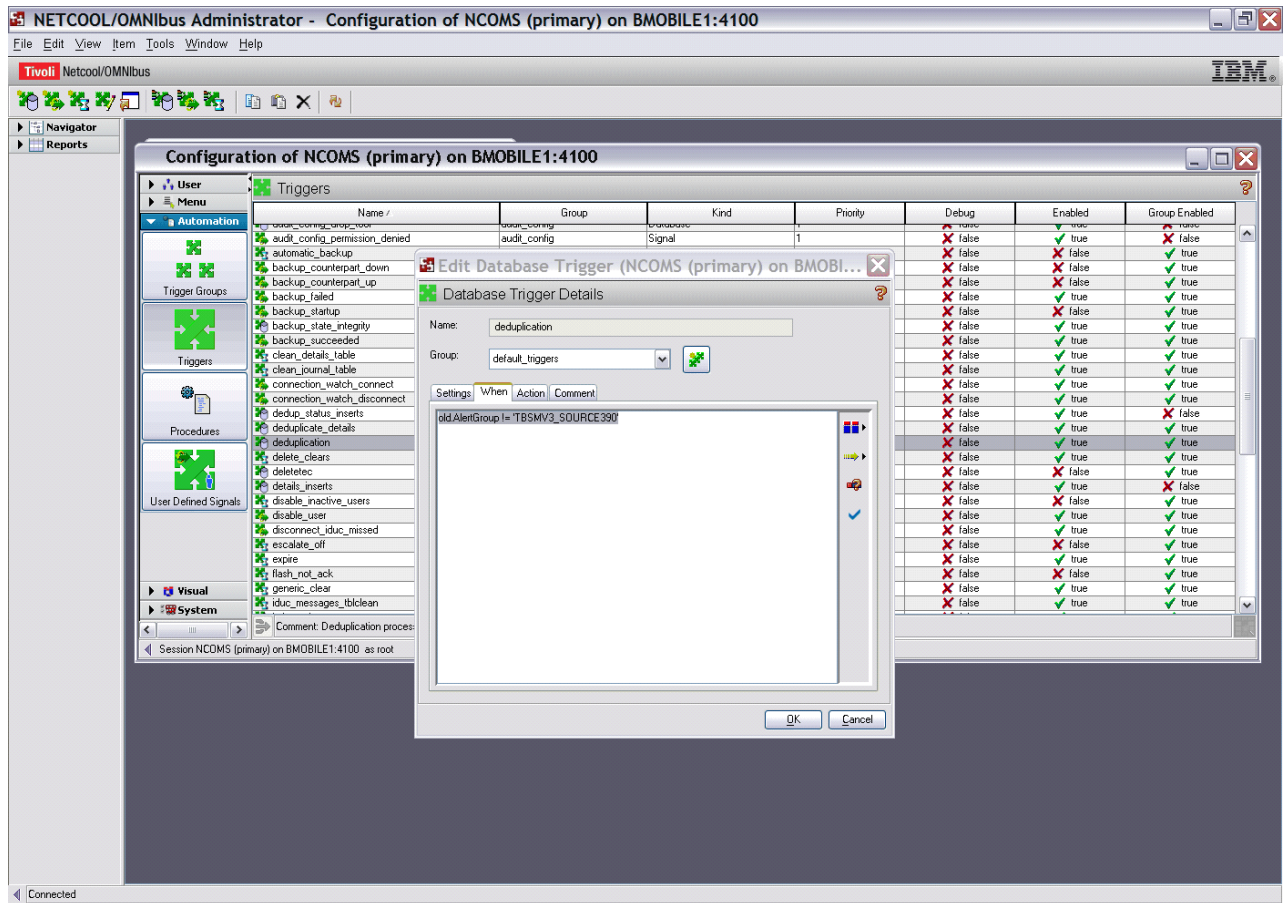


Figure 1. `old.AlertGroup != 'TBSMV3_SOURCE390'`

You can do additional administrative tasks (for example, updating the Message Event Severity and State Lookup Table). For information on these tasks, see the *IBM Tivoli Event Pump for z/OS Installation and Configuration Guide*.

Installing and configuring the EIF probe rules

The Netcool/OMNIBus component for z/OS support includes EIF probe rule files. These rule files correlate events with z/OS Discovery Library Support updates.

Rule file include structure

The rule files that are used by the EIF probe support the inclusion of other rule files. The set of z/OS rule files uses this inclusion capability to organize and modularize the files. Include only the rule files that you need. By including only the rule files that you need, you reduce processor usage for the EIF probe. Here is the hierarchical file structure for the rule files:

```
tivoli_eif.rules
  zos_event.rules
    zos_afoper_event.rules
    zos_autooperator_event.rules
    zos_cics_event.rules
    zos_customer_applications.rules
    zos_db2_event.rules
    zos_extension_event.rules
    zos_ims_event.rules
    zos_jobmon_event.rules
    zos_mvpf_event.rules
```

```

zos_opsmvs_event.rules
zos_rmf_event.rules
zos_sa390_event.rules
zos_sms_event
zos_tws_event.rules
zos_zos_event.rules
zos_event_user_defined.rules
zos_identity.rules
customer_override.rules

```

The indentation within the hierarchical view represents where the files are included. For example, the `tivoli_eif.rules` file includes the `zos_event.rules` file and the files that are listed under it.

Installation steps

The probe rules for either Windows Systems (Netcool/OMNIBus server files) or Unix and Linux(x86) Systems (Netcool/OMNIBus server files) systems are included with the package.

For Windows Systems (Netcool/OMNIBus server files)

If you made any modifications to the rule files in `%NCHOME%\omnibus\probes\win32` directory, make sure that you save a copy of these files. After the updated rule files are copied, merge your changes into the updated files.

In a Windows environment, follow these steps to install and configure a system for z/OS events:

1. On the Netcool/OMNIBus server, change to the `%NCHOME%\omnibus\etc\EventPump` directory.
2. Run the `z0SeventSupport_rules.bat` file.
This batch file copies a set of rule files to the `%NCHOME%\omnibus\probes\win32` directory.
3. Change to the `%NCHOME%\omnibus\probes\win32` directory.
4. Uncomment the following include statements in the `tivoli_eif.rules` file to enable the z/OS rules:

```

###
### Handle Z Events
###
include "zos_event.rules"
###
### Handle Z user defined events.
###
include "zos_event_user_defined.rules"

```

5. Restart the probe to reread the new rule files.

For Unix and Linux(x86) Systems (Netcool/OMNIBus server files)

If you made any modifications to the rule files in `$NCHOME/omnibus/probes/$ARCH` directory, make sure that you save a copy of these files. After the updated rule files have been copied, merge your changes into the updated files.

In a UNIX or Linux environment, follow these steps to install and configure a system for z/OS events:

1. On the Netcool/OMNIBus server, change to the `$NCHOME/omnibus/etc/EventPump` directory.
2. Run the `z0SeventSupport_rules.sh` script.
This script copies a set of rule files to the `$NCHOME/omnibus/probes/$ARCH` directory.

3. Change to the \$NCHOME/omnibus/probes/\$ARCH directory.
4. Uncomment the following include statements in the tivoli_eif.rules file to enable the z/OS rules:

```
###  
### Handle Z Events  
###  
include "zos_event.rules"  
###  
### Handle Z user defined events.  
###  
include "zos_event_user_defined.rules"
```

5. Restart the probe to reread the new rule files.

Configuration steps

After you install the EIF probe rules for z/OS, there are no additional required configuration steps. However, you can comment or uncomment individual rule file include statements in the zos_event.rules file to select specific z/OS data sources.

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