



Installing IBM Security Role and Policy Modeler version 1.1 Fix Pack 1

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Chapter 1. Installing Role and Policy Modeler version 1.1 Fix Pack 1

Install IBM® Security Role and Policy Modeler version 1.1 Fix Pack 1 to get the fixes and Role Lifecycle Management feature.

Before you begin

- Ensure that you have installed IBM Security Role and Policy Modeler version 1.1. See Installing Role and Policy Modeler version 1.1.
- Ensure that you have installed WebSphere® Application Server Version 7.0 Fix Pack 19. You can download it from the official IBM support website at <http://www.ibm.com/support/docview.wss?uid=swg24030660>.
- Ensure that you have a minimum of 500 MB of available system memory.
- Be aware of the fix pack installation known issues. See Chapter 2, “Troubleshooting Fix Pack 1 installation errors,” on page 11.
- Ensure that you back up the following Role and Policy Modeler version 1.1 files in case of a fix pack installation failure:

Table 1. Files to back up before installing the fix pack

Location	Files
<code>TIP_PROFILE_HOME\installedApps\TIPCell\isc.ear\com.ibm.security.modeling.rest.war\WEB-INF\</code>	<code>securityModeling.properties</code>
<code>SM_HOME\utilities\extract</code>	<code>Extract.cmd</code> <code>Extract.sh</code> <code>ExtractConfig.xml</code>
<code>SM_HOME\utilities\load</code>	<code>Load.cmd</code> <code>Load.sh</code> <code>Config.properties</code>

Procedure

1. Make a backup copy of all the files in the `TIP_PROFILE_HOME\installedApps\TIPCell\isc.ear\com.ibm.security.modeling.console.war\customizations*` directory. You must save these customization files so that you can replace them after the fix pack installation and retain your settings.
2. Download the Fix Pack 1 files and update Role and Policy Modeler. Use one of the following IBM Support websites to obtain the files and instructions:
 - <http://www.ibm.com/support/fixcentral>
 - http://www.ibm.com/support/entry/portal/Overview/Software/Tivoli/Tivoli_Identity_Manager

For general instructions to update the Role and Policy Modeler product with a fix pack, see “Updating Role and Policy Modeler with a fix pack” on page 2.

3. Update the database schema. See one of the following topics depending on the type of database you use:
 - “Updating the schema for DB2” on page 3
 - “Updating the schema for a non-administrator DB2 database user” on page 4
 - “Updating the schema for Oracle” on page 5

4. Copy the customization files that you backed up in step 1 on page 1 to the `TIP_PROFILE_HOME\installedApps\TIPCell\isc.ear\com.ibm.security.modeling.console.war\customizations` directory.
5. Verify the installation of Fix Pack 1. Ensure that each of the following files exist in the proper directory:

File name	Directory
security_modeling_schema_modify_db2_1.1.0.1.sql security_modeling_schema_modify_oracle_1.1.0.1.sql	SM_HOME\ scripts
IBM_Security_Role_Lifecycle_Management_Integrated_Approval.twx rapmConfig.properties reportConfig.properties ldapConfig.properties BPMLifecycleManagement.properties	SM_HOME\ lifecycle
securityModeling.properties Check for ROLE_LIFECYCLE_REQUEST_HANDLER_FACTORIES parameter update.	SM_HOME\ lifecycle
IBM_Security_Role_Lifecycle_Management_Custom_Review_Example.twx BPMLifecycleManagement.properties	SM_HOME\ samples
These files pertain to the custom lifecycle request sample.	

6. Optional: Install Business Process Manager version 7.5.1 if you want to use the Role Lifecycle Management feature. See “Installing IBM Business Process Manager Standard” on page 6.

What to do next

- If you need to remove the fix pack, see “Rolling back to the previous version” on page 8.
- Optional: Configure and enable Role Lifecycle Management. See the Role and Policy Modeler Information Center at http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.security.modeling.doc/tsk/tsk_rlm_configuring_RLM_main.htm.

Updating Role and Policy Modeler with a fix pack

Update the Role and Policy Modeler product with a fix pack using the launchpad.

Before you begin

Ensure that you downloaded the fix pack files from the IBM Support website to a temporary directory. Use one of the following websites to obtain the files and instructions:

- <http://www.ibm.com/support/fixcentral>
- http://www.ibm.com/support/entry/portal/Overview/Software/Tivoli/Tivoli_Identity_Manager

About this task

This task describes the general steps to download and install a fix pack for Role and Policy Modeler using the launchpad.

Procedure

1. Navigate to the directory where you downloaded the fix pack files.
2. Start the update installer from the command prompt:
 - Windows 32-bit operating system:
launchpad.exe
 - Windows 64-bit operating system:
launchpad64.exe
 - UNIX, Linux, or AIX® operating system:
launchpad.sh
3. Click **Launch the installation wizard for Role and Policy Modeler Fixpack** from the launchpad panel. The IBM Installation Manager is started and sets the Role and Policy Modeler fix pack repository automatically.
4. Click **Update** on the IBM Installation Manager home page.
5. Select the **SecurityModeler** package group name and click on **Next**.
6. Select the fix pack level you want to install and click **Next**.
7. Read and accept the license agreement and click **Next**.
8. On the Features panel, ensure that all the features you want to install are selected and click **Next**. The custom panel for collecting Tivoli Integrated Portal credentials displays.
9. Provide the correct Tivoli Integrated Portal credentials and click **Test Connection**.
10. On the validating Tivoli Integrated Portal credentials panel, the **Next** button will be enabled. Click **Next**.
11. On the Summary panel, click **Update**. The Role and Policy Modeler fix pack installation begins.
12. After the package updates are complete, click **Finish**.
13. Restart Tivoli Integrated Portal.

What to do next

Continue with the steps in Chapter 1, “Installing Role and Policy Modeler version 1.1 Fix Pack 1,” on page 1.

If you need to remove the fix pack, see “Rolling back to the previous version” on page 8.

Updating the schema for DB2

Update the Role and Policy Modeler DB2® schema to support Fix Pack 1.

Before you begin

- Ensure that you install Role and Policy Modeler 1.1.
- Ensure that your DB2 database is already set up. See the "Creating the database schema for a DB2 database" topic in the Role and Policy Modeler Information Center.
- Note the location of the following DB2 script file from the downloaded fix pack files in the *SM_HOME*\scripts directory:
security_modeling_schema_modify_db2_1.1.0.1.sql

The following examples show the location using the default *SM_HOME* directory:

- Windows operating system:
C:\Program Files\IBM\SecurityModeler\scripts\
- UNIX, Linux, or AIX operating systems:
/opt/IBM/SecurityModeler/scripts/

Procedure

1. To connect to the DB2 database, run the following command:
db2 connect to *database_name* user *user_name* using *user_password*

where:

database_name

Specify the name of the Role and Policy Modeler DB2 database.

user_name

Specify the DB2 administrator user name.

user_password

Specify the DB2 administrator password.

For example, specify:

```
db2 connect to rapmdb user db2admin using passw0rd
```

2. To modify the Role and Policy Modeler DB2 database schema, run one of these commands:

- Windows operating system:

```
db2 -tf "script_location\security_modeling_schema_modify_db2_1.1.0.1.sql"
```

For example:

```
db2 -tf "C:\SecurityModeler\scripts\security_modeling_schema_modify_db2_1.1.0.1.sql"
```

- UNIX, Linux, or AIX operating systems:

```
db2 -tf "script_location/security_modeling_schema_modify_db2_1.1.0.1.sql"
```

Results

The Role and Policy Modeler schema is updated on the DB2 database.

What to do next

Continue with the steps in Chapter 1, "Installing Role and Policy Modeler version 1.1 Fix Pack 1," on page 1.

Updating the schema for a non-administrator DB2 database user

You can update the schema for a non-administrator DB2 database user to support Fix Pack 1.

Before you begin

- Ensure that you install Role and Policy Modeler 1.1.
- Ensure that your DB2 database is already set up for a non-administrator DB2 database user. See the "Creating the schema for a non-administrator DB2 database user" topic in the Role and Policy Modeler Information Center.
- Note the location of the following DB2 script file from the downloaded fix pack files in the *SM_HOME*\scripts directory:
security_modeling_schema_modify_db2_1.1.0.1.sql

The following examples show the location using the default *SM_HOME* directory:

- Windows operating system:
C:\Program Files\IBM\SecurityModeler\scripts\
- UNIX, Linux, or AIX operating systems:
/opt/IBM/SecurityModeler/scripts/

About this task

You must update a schema that matches the non-administrator user ID which is used to connect to the Role and Policy Modeler database.

Procedure

1. Connect to database as a non-administrator user.

```
db2 connect to database_name user smuser_name using smuser_password
```

where:

database_name

Specify the name of the Role and Policy Modeler DB2 database.

smuser_name

Specify the non-administrator DB2 database user name.

smuser_password

Specify the non-administrator DB2 database user password.

2. To modify the Role and Policy Modeler DB2 database schema, run one of these commands:

- Windows operating system:

```
db2 -tf "script_location\security_modeling_schema_modify_db2_1.1.0.1.sql"
```

For example:

```
db2 -tf "C:\SecurityModeler\scripts\security_modeling_schema_modify_db2_1.1.0.1.sql"
```

- UNIX, Linux, or AIX operating systems:

```
db2 -tf "script_location/security_modeling_schema_modify_db2_1.1.0.1.sql"
```

Results

The Role and Policy Modeler schema for a non-administrator DB2 database user is updated on the DB2 database.

What to do next

Continue with the steps in Chapter 1, "Installing Role and Policy Modeler version 1.1 Fix Pack 1," on page 1.

Updating the schema for Oracle

Update the Role and Policy Modeler Oracle database schema to support Fix Pack 1.

Before you begin

- Ensure that you install Role and Policy Modeler 1.1.
- Ensure that your Oracle database is already set up. See the "Creating the schema for an Oracle database" topic in the Role and Policy Modeler Information Center.

- Note the location of the following Oracle script file from the downloaded fix pack files in the *SM_HOME*\scripts directory:
security_modeling_schema_modify_oracle_1.1.0.1.sql

The following examples show the location using the default *SM_HOME* directory:

- Windows operating system:
C:\Program Files\IBM\SecurityModeler\scripts\
– UNIX, Linux, or AIX operating systems:
/opt/IBM/SecurityModeler/scripts/

Procedure

1. To connect to the Oracle database, run this command:

```
SQL> connect Oracle_user/Oracle_userpassword@databasename
```

where:

Oracle_user

Specify the Oracle administrator user name.

Oracle_userpassword

Specify the Oracle administrator password.

databasename

Specify the name of the Role and Policy Modeler Oracle database.

2. To modify the Role and Policy Modeler Oracle database schema, run one of these commands:

- Windows operating system:

```
SQL> @"script_location\security_modeling_schema_modify_oracle_1.1.0.1.sql"
```

For example:

```
SQL> @"C:\SecurityModeler\scripts\security_modeling_schema_modify_oracle_1.1.0.1.sql"
```

- UNIX, Linux, or AIX operating systems:

```
SQL> @"script_location/security_modeling_schema_modify_oracle_1.1.0.1.sql"
```

Results

The Role and Policy Modeler schema is updated on the Oracle database.

What to do next

Continue with the steps in Chapter 1, “Installing Role and Policy Modeler version 1.1 Fix Pack 1,” on page 1.

Installing IBM Business Process Manager Standard

Install IBM Business Process Manager Standard 7.5.1, which is bundled with IBM Security Role and Policy Modeler. This software is required for the Role Lifecycle Management process.

Before you begin

When you download the files for IBM Security Role and Policy Modeler from Passport Advantage®, the IBM Business Process Manager Standard product is available to download as well.

Note: The requirement for Business Process Manager is version 7.5.1. Ensure that you install version 7.5.1, available from Passport Advantage, to avoid potential upgrade issues in the future.

Review the Business Process Manager hardware and software requirements at <http://www.ibm.com/support/docview.wss?uid=swg27023028>.

Review the Role Lifecycle Management section of the "Known limitations, problems, and workarounds" topic in the Role and Policy Modeler information center.

About this task

Install Business Process Manager if you want to enable the Role Lifecycle Management feature.

Procedure

1. Determine the preinstallation steps for IBM Business Process Manager Standard and your operating system. See http://publib.boulder.ibm.com/infocenter/dmndhelp/v7r5m1/topic/com.ibm.wbpm.imuc.sbp.doc/topics/cins_preparing.html. Perform the following preinstallation tasks:
 - Review the hardware and software requirements.
 - Review the contents of the installation files.
 - Prepare your operating system.
 - Ensure that you have an existing DB2.

You can create an instance of DB2, or you can reuse the DB2 instance from Role and Policy Modeler. Create two databases on this DB2 instance:

- Process Center database, or Process Server database for Process Server installation
- Performance Data Warehouse database

Note: Create the database with the UTF-8 code set to support additional languages, use the following commands:

```
db2 create db bpmdb using codeset UTF-8 TERRITORY US PAGESIZE 32768
db2 create db pdwdb using codeset UTF-8 TERRITORY US PAGESIZE 32768
```

The following link provides instructions for using an existing database:

```
http://www.ibm.com/support/docview.wss?rs=0&context=SSFTDH&q1=ibpms75relnotes&q2=installation&uid=swg21499740&loc=en\_US&cs=utf-8&lang
```

2. Perform a typical installation of Business Process Manager Process Center. Ensure that you specify a fully qualified host name. Go to the IBM Business Process Manager information center at <http://publib.boulder.ibm.com/infocenter/dmndhelp/v7r5m1/topic/com.ibm.wbpm.main.doc/ic-homepage-bpm.html> and search for *Typical installation: IBM Business Process Manager Standard*.

Process Center is the process application development environment. The process application must be deployed from the Process Center to the Process Server.
3. Perform a typical installation of Business Process Manager Process Server. Specify the host name, port, user name, and password of the Process Center that you want to connect to. Process Server is the runtime engine of the process application. Once you deploy the process application to the Process Server, it is not required that the Process Center connects to the Process Server.

4. Optional: Install the IBM Process Designer.

You only need Process Designer if you are going to develop a customized process application. On Windows operating systems, Process Designer is installed as part of Process Center installation. Process Designer does not support AIX or Linux. If you install Process Center on AIX or Linux, you can download Process Designer from Process Center URL to a Windows operating system. When the Process Designer runs, it connects to the Process Center on the remote system.

Go to the IBM Business Process Manager Information Center at <http://publib.boulder.ibm.com/infocenter/dmndhelp/v7r5m1/topic/com.ibm.wbpm.main.doc/ic-homepage-bpm.html> and search for *Installing IBM Process Designer*.

What to do next

Configure Business Process Manager. See the Role and Policy Modeler Information Center at http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.security.modeling.doc/tsk/tsk_rlm_configuring_BPM.htm.

Rolling back to the previous version

Use the rollback feature if you have applied an update to the Role and Policy Modeler product package and decide later that you want to remove the update and revert to the earlier version of the product.

About this task

When you use the rollback feature, the IBM Installation Manager uninstalls the updated resources and reinstalls the resources from the previous version.

Procedure

1. Start IBM Installation Manager.
 - UNIX or Linux:
 - a. Open a command-line window and navigate to the directory containing Installation Manager. The default installation directory is:
`opt/IBM/InstallationManager/eclipse`
 - b. Run this command:
`./IBMIM`
 - Windows operating system:
Click **Start >All Programs > IBM Installation Manager >IBM Installation Manager**.
2. Click **Roll Back** to start the Rollback wizard.
3. From the Roll Back Package list, select the package group that contains the packages that you want to roll back. Click **Next**.
4. Select the version of the package that you want to roll back to. Click **Next**.
5. Read the summary information and click **Roll Back** to roll back the package.

Results

The Role and Policy Modeler is now at the level it was prior to the update.

If you have rolled back Fix Pack 1 from Role and Policy Modeler 1.1, the following data remains on your system:

- Fix Pack 1 reports
- DB2 and Oracle schema updates
- Widget definition update

What to do next

Uninstall Tivoli Integrated Portal 2.2.0.5. See the "Uninstalling Tivoli Integrated Portal 2.2 Fix Pack 5" topic in the Role and Policy Modeler information center.

If you have trouble accessing the Role and Policy Modeler console after rolling back the fix pack and uninstalling Tivoli Integrated Portal 2.2.0.5, install the Role and Policy Modeler server. See "Installing the Role and Policy Modeler server" on page 10.

Uninstalling Tivoli Integrated Portal 2.2 Fix Pack 5

To complete the rollback of the Role and Policy Modeler 1.1 Fix Pack 1, you must uninstall the Tivoli Integrated Portal 2.2 Fix Pack 5.

Procedure

1. Navigate to the uninstallation directory of WebSphere Application Server for Tivoli Integrated Portal 2.2.0.5. For example, on a Windows operating system the directory might be: C:\Program Files\IBM\WebSphere\AppServer_uninst\TIPInstall2205.
2. Update the `uninstall_response.txt` file with the correct Tivoli Integrated Portal parameters and save it.
3. At the command prompt in the same directory, run one of the following commands:
 - Windows operating system
`uninstall.bat -i silent -f response_file_path`
 - UNIX, Linux, or AIX operating systems
`uninstall.sh -i silent -f response_file_path`

For example, on a Windows operating system, enter:

```
uninstall.bat -i silent -f "C:\Program Files\IBM\
WebSphere\AppServer\_uninst\TIPInstall2205\uninstall_response.txt"
```

This step uninstalls Tivoli Integrated Portal.

4. Remove the `TIPInstall2205` directory.
5. For UNIX, Linux, or AIX operating systems only, run the following command:
`chmod -R 755 TIP_PROFILE_HOME/bin/*`

where the default `TIP_PROFILE_HOME` directory is:

```
/opt/IBM/WebSphere/AppServer/profiles/TIPProfile/
```

Following is an example of the command:

```
chmod -R 755 /opt/IBM/WebSphere/AppServer/profiles/TIPProfile/bin/*
```

The permissions on the Tivoli Integrated Portal files in this directory are updated.

Results

The Tivoli Integrated Portal 2.2 Fix Pack 5 is removed.

Installing the Role and Policy Modeler server

Install the Role and Policy Modeler server if there was a problem after rolling back Fix Pack 1.

About this task

After roll back of Role and Policy Modeler Fix Pack 1, you might get the following error if you try to use the console:

Unable to connect to the server.

Also, in the *TIP_PROFILE_HOME/logs/server_name/SystemOut.log* you might find the following error:

```
WSWS7011E: The configuration for the com.ibm.security.modeling.rest.war  
application module cannot load correctly.
```

These errors mean that the Role and Policy Modeler server is not installed properly.

Use these instructions to perform the installation of the server.

Procedure

1. Locate the `rest_1.0.0.zip` file in the following directory:
 - Windows operating system default location:
`C:\Program Files\IBM\SecurityModelerShared\files`
 - AIX, Linux, or UNIX operating system default location:
`/opt/IBM/SecurityModelerShared/files`
2. Extract the `.zip` file and locate the `com.ibm.security.modeling.rest.war` file.
3. Copy the `com.ibm.security.modeling.rest.war` file to *TIP_PROFILE_HOME/installableApps*. If the file already exists, overwrite it.
4. From the command prompt, run the following command:
 - Windows operating system:

```
TIP_PROFILE_HOME\bin\wsadmin.bat -user tipadmin -password password -lang jython  
-f SM_HOME\scripts\deployRest.jy  
TIP_PROFILE_HOME\installableApps\com.ibm.security.modeling.rest.war"  
com.ibm.security.modeling.rest.war /isrm
```

Use double slash (//) for full path of `com.ibm.security.modeling.rest.war`.
 - AIX, Linux, or UNIX operating system:

```
TIP_PROFILE_HOME/bin/wsadmin.sh -user tipadmin -password password -lang jython  
-f SM_HOME/scripts/deployRest.jy  
TIP_PROFILE_HOME/installableApps/com.ibm.security.modeling.rest.war"  
com.ibm.security.modeling.rest.war /isrm
```
5. Restart Tivoli Integrated Portal.

Chapter 2. Troubleshooting Fix Pack 1 installation errors

You might encounter errors when you install Role and Policy Modeler version 1.1 Fix Pack 1. Use the information in this topic to determine how to resolve them.

Prerequisite checking errors

- If the Fix Pack 1 installation fails due to the Tivoli Integrated Portal fix pack installation, then see the TIPFPInstaller-00.log file for details about the problem.
- If the installation log files contain a message that the installation failed as a result of a system pre-check failure, then review the `<WAS_HOME>/logs/validatePrereqs.out` file. `<WAS_HOME>` is the WebSphere Application Server home directory.
- If the `validatePrereqs.out` file contains the message “Failed! System available memory (16 MB) does not meet minimum requirements (128 MB).”, then your system does not meet the available system memory requirement for having both Tivoli Integrated Portal and IBM Installation Manager for the Role and Policy Modeler Fix Pack 1. You must have a minimum of 500 MB available when you run the fix pack installation. To check for the amount of available memory on your system, use one of the following methods:
 - **Windows operating system:** Open the **Task Manager** and use the **Performance** tab to check the available memory on your system.
 - **AIX, UNIX, or Linux operating system:** Use the **free -m** command to check the available memory.Free up enough memory on your system to meet the requirements, restart the system, and try the fix pack installation again.

securityModeling.properties file errors

If you find either one of the following errors in the log file:

Unable to take back up of securityModeling.properties from setup.
So securityModeling.properties from existing setup cannot be restored.
For more information, see the Role and Policy Modeler information center.

Unable to restore back up of securityModeling.properties.
For more information, see the Role and Policy Modeler information center.

Copy the `securityModeling.properties` file that you backed up before the fix pack installation to the `TIP_PROFILE_HOME\installedApps\TIPCell\isc.ear\com.ibm.security.modeling.rest.war\WEB-INF` directory.

Utilities property file errors

If you find either one of the following errors in the log file:

Unable to take back up of utilities properties files from setup.
So utilities properties from existing setup cannot be restored.
For more information, see the Role and Policy Modeler information center.

Unable to restore back up of utilities properties.
For more information, see the Role and Policy Modeler information center.

Copy the `Extract.cmd`, `Extract.sh` and `ExtractConfig.xml` files that you backed up before the fix pack installation to the `SM_HOME\utilities\extract` directory.

Also, copy the Load.cmd, Load.sh, Config.properties files that you backed up before the fix pack installation to the *SM_HOME\utilities\load* directory.

The Roles and Policies window has an error that indicates a database problem

On the Role and Policies window of the user interface, you might receive the following types of errors:

- CTJRP1010E The role cannot be retrieved because of an internal error.
- The System.out log contains entries similar to:
Caused by: com.ibm.db2.jcc.am.SqlSyntaxErrorException:
"DB2ADMIN.LC_REQUEST_CONFIG" is an undefined name. SQLCODE=-204

These errors occur if you have not modified the Role and Policy Modeler database schema after applying Fix Pack 1. Run the command to modify the schema in the *SM_HOME\scripts* directory for DB2 or Oracle. Depending on the type of database you use, see one of the following topics in the Role and Policy Modeler information center:

- "Updating the schema for DB2"
- "Updating the schema for Oracle"

Then, restart Tivoli Integrated Portal.

Installation Manager logs contain warning messages after a successful fix pack installation

You might receive Installation Manager warning messages in the log files, located in the */logs* directory, such as:

Potential problems logged in diagnostic download log at file:
C:\ProgramData\IBM\Installation Manager\logs\DownloadExceptions\20111220_2113.xml

You can ignore these warning messages after a successful fix pack download.

An error incorrectly states that the Tivoli® Common Reporting server is not running

After you supply the Tivoli Integrated Portal administrator credential in the Role and Policy Modeler Uninstall Packages window, the following error occurs:

CTJRI0089E The Tivoli Common Reporting server is not running.
Start the server, and then click Test Connection.

The underlying problem is an `OutOfMemoryError` that prevents the Installation Manager from detecting that Tivoli Common Reporting is running.

To fix the error, edit the `trcmd.sh` or `trcmd.bat` file by adding `-Xmx1024m` to the Java command as follows:

```
{JAVA_HOME}/bin/java {JAVA_ARGS} -Xmx1024m -cp "{TCR_LIB}/commandLine-2.1.jar"  
com.ibm.tivoli.reporting.advanced.cognos.cli.CommandLauncher $parms
```

Then run the installation again.

- For the Windows operating system, the location of the `trcmd.bat` file is
C:\Program Files\IBM\WebSphere\AppServerComponents\TCRComponent\bin.
- For Linux, the location of the `trcmd.sh` file is `/opt/IBM/WebSphere/AppServerComponents/TCRComponent/bin`.

- For UNIX or AIX, the location of the `trcmd.sh` file is `/usr/IBM/WebSphere/AppServerComponents/TCRComponent/bin`.

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