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Informatica® Real-Time Alert Manager
3.1 HotFix 1

Installation Guide

Informatica Real-Time Alert Manager Installation Guide
3.1 HotFix 1
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Preface

The *Real-Time Alert Manager Installation Guide* describes how to install and deploy Real-Time Alert Manager automatically in Apache Tomcat 6 application server using the Real-Time Alert Manager installer. The target audience of this guide is the system administrator who is responsible for installing Real-Time Alert Manager. This guide assumes that you have a working knowledge of the application server, database server, and other system requirements to install and deploy Real-Time Alert Manager.

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CHAPTER 1

Installation Overview

This chapter includes the following topics:

Real-Time Alert Manager Installer

You can install Real-Time Alert Manager in graphical or console mode on Windows, Linux, AIX, or Solaris.

You can install Real-Time Alert Manager from a DVD or from the root of the directory where you download the installation files.

The Real-Time Alert Manager installer supports automatic installation and deployment of Real-Time Alert Manager on Apache Tomcat 6 application server for Windows, Linux, AIX, and Solaris.

The Real-Time Alert Manager installer is a J2EE web application bundle that you can deploy in an Apache Tomcat 6 application server. This bundle contains the following two core functions:

- The user interface to perform administration and configuration.
- The run-time engines that perform rule processing and alert management.

Note: The run-time aspect of the product requires significant resources, such as threads and memory from the parent container. You must deploy Real-Time Alert Manager and RulePoint in a separate instance of Apache Tomcat 6 application server where other applications are not deployed.

To install and deploy Real-Time Alert Manager on other supported application servers such as, Oracle WebLogic Server 10*g*, IBM WebSphere Application Server 7.0, and JBoss AS 4.0, see *Real-Time Alert Manager Administrator Guide*.

Installation Options

You can either choose to configure and deploy Real-Time Alert Manager directly to the application server or can choose to deploy Real-Time Alert Manager manually after the installation is over.

The Real-Time Alert Manager installer supports the following installation types:

Full installation

Full installation configures and deploys the Real-Time Alert Manager package to the application server. The installer interacts with the database for validation and also sets up the database to populate the tables. You must ensure the initial set up of a clean and configured database.

If you are using the RulePoint database for authentication, ensure that you have installed and configured RulePoint. If you use LDAP authentication, the installer interacts with the LDAP server for validating the LDAP related settings.

Software Only installation

Use this option if you need to manually install and configure Real-Time Alert Manager. Software Only installation creates the RTAM folder in the staging directory. This installation does not access the database or configure Real-Time Alert Manager for deploying to the target directory of the application server.

In this type of install, the installer does not interact with the database. You must configure the database and the database related properties files manually.

For more information, see *Real-Time Alert Manager Administrator Guide*.

Staging Directory

The Real-Time Alert Manager package is installed in the staging directory before deployed to the application server.

You have to enter the path to the staging directory during installation. The specified directory must be empty and the directory name should not contain spaces. The installer creates the following files in the staging directory:

- Installer log file (for example, RTAM_3.1_HF1_InstallLog.log)
- Installer properties file (for example, RTAM-V3.1_HF1-Install.properties)
- Archive file of the RTAM directory

The RTAM archive file is later used by the installer to deploy Real-Time Alert Manager in the target directory of the application server.

Configuration Updates for LDAP

Real-Time Alert Manager supports three types of authentication mechanisms. You have to select the authentication type when you install Real-Time Alert Manager.

An authentication mechanism defines rules about security information and the format of security information stored in both credentials and tokens. If you use LDAP as the authentication mechanism, you required additional information to update the `rtam-config.properties` file. Sometimes, the configuration properties referenced has different names in the installer. Then, the corresponding and equivalent name of the property in `rtam-config.properties` file is provided in parentheses and in italics. In a few cases, both the installer and the `rtam-config.properties` file uses the same property name. For more information, see *Real-Time Alert Manager 3.1 HotFix 1 Administrator Guide*.

Important: You do not have to configure a group resolver for Real-Time Alert Manager installation with Active Directory or with LDAP providers other than Active Directory.

CHAPTER 2

Before You Install

This chapter includes the following topics:

Pre-Installation Tasks

Before you install Real-Time Alert Manager, set up the machine to meet the requirements to install and run Real-Time Alert Manager. The installer requires information about the database, the application server, and the authentication mechanism.

Complete the following tasks before you install Real-Time Alert Manager:

1. On Linux, AIX, or Solaris the user who runs the installer must have read, write, and run permissions on the installer and its files directory. The user must have write access to the `/tmp` directory. The `/tmp` directory must have sufficient space for the installer to perform the install.
2. Deploy a supported database server with the appropriate user permissions.

   The database administrator creates the database and its user. The database user for Real-Time Alert Manager operations must have permissions to create, delete, select, and update tables on the database.

   The following example is for an Oracle database:

   ```
   CREATE TABLESPACE CEP_TS DATAFILE 'C:\app\cepadmin\oradata\CEP_TS.DBF'  SIZE 500M;
   CREATE USER rtam IDENTIFIED BY rtam DEFAULT TABLESPACE CEP_TS  QUOTA UNLIMITED ON
   CEP_TS ;
   GRANT CONNECT, RESOURCE TO rtam ;
   GRANT CREATE SESSION, CREATE TABLE TO rtam ;
   EXIT;
   ```
3. Ensure that the database driver version matches the version of the installed database. When possible, use the drivers that were shipped with the database.
4. Ensure that you have the license.dat file.

   Contact Informatica Global Customer Support if you do not have a license key.
5. Verify that RulePoint is installed and configured.
6. Set up an LDAP server if you are using LDAP for authentication.

Verify System Requirements

Before you install Real-Time Alert Manager, ensure to meet the minimum system requirements to install and run the Real-Time Alert Manager installer.

The following table lists the platforms supported by the Real-Time Alert Manager installer:

Domain	Supported Platforms
Operating Systems	- Windows - Linux - AIX - Solaris
Application Servers	Apache Tomcat
Database Servers	- Oracle - IBM DB2 - Microsoft SQL Server
Recommended Hardware Requirements	- 64-bit Intel or AMD-compatible, Xeon equivalent or better, 1.7 Ghz minimum CPU - 12-16 GB RAM - 5-10 GB application disk space - 1 GB Ethernet network connection

For more information about Real-Time Alert Manager support, see the Product Availability Matrix at https://communities.informatica.com/community/my-support/tools/product-availability-matrices.

Set Up JAVA_HOME Path

Install JDK 1.6 on the system where you want to install Real-Time Alert Manager.

Set the `JAVA_HOME/bin` PATH environment variable on the machine where you want to install Real-Time Alert Manager.
If you install Real-Time Alert Manager on the same machine as RulePoint, you do not have to set the `JAVA_HOME` path again.

Set Up the Apache Tomcat Application Server

Install and set up Apache Tomcat 6.0.16 application server.

Note: The folder names in the Tomcat installation path must not contain spaces.

1. Set the operating system environment variable `%CATALINA_HOME%` to the installation location of the Tomcat server.

   Set the environment variable for the entire system. If you install Real-Time Alert Manager on the same machine as RulePoint, you do not have to set the `CATALINA_HOME` path again.

   ```
   %CATALINA_HOME%="C:\tomcat\apache-tomcat-6.0.16"
   ```

2. Create a setenv.bat file for Windows and setenv.sh file for UNIX.

   Save the file in the `%CATALINA_HOME%\bin` directory. If you install Real-Time Alert Manager on the same machine as RulePoint, you do not have to create the setenv batch file again.

   Use the following settings in the environment variable batch file:

```
CATALINA_OPTS="-server -Xms2048m -Xmx2048m -XX:MaxPermSize=256m -XX:
+HeapDumpOnOutOfMemoryError -Djava.awt.headless=true -Dfile.encoding=UTF-8 -
Duser.language=en -Duser.region=US"
```

Set Up the X Window Server

When you run the installer in graphical mode, you must use a graphics display server. On UNIX, the graphics display server is typically an X Window server. If you do not have the X Window server installed on the machine where you want to install the product, you can run the installer using an X Window server installed on another machine. Use the DISPLAY variable to redirect output of the X Window server to another UNIX machine.

The following table lists the commands to set the DISPLAY environment variable:

Shell	Command	Example
C	setenv DISPLAY <TCP/IP node of XWindow server>:0	setenv DISPLAY 10.1.50.23:0
Bash/Korn	export DISPLAY=”<TCP/IP node of XWindow server>:0”	export DISPLAY=”10.1.50.23:0”
Bourne	DISPLAY=”<TCP/IP node of XWindow server>:0” export display	DISPLAY=”10.1.50.23:0” export display

If you do not know the IP address of a UNIX machine where the X Window server is installed, ask your network administrator. For more information about redirecting the DISPLAY variable, see the documentation from the UNIX vendor.

If the X Window server does not support the font that the installer uses, the installer can display incorrect labels on the buttons.

CHAPTER 3

Informatica Real-Time Alert Manager Installation

This chapter includes the following topics:

Installing in Graphical Mode

You can install Real-Time Alert Manager in graphical mode on Windows, Linux, AIX, or Solaris.

Shut down all instances of the Tomcat application server before you run the installer.
Install Real-Time Alert Manager and the Apache Tomcat 6 application server on the same machine. Real-Time Alert Manager requires a separate and exclusive instance of Tomcat application server.

1. Run the Real-Time Alert Manager installer based on the operating environment.
   - To install on Windows, run `Informatica_RTAM_31_HF1.exe` from the root directory.
   - To install on Linux, AIX, or Solaris, use a shell command line to run the installer from the root directory with -i gui option for graphical mode installation.
     Use the following commands:

Platform	Command
Linux	Informatica_RTAM_31_HF1_Linux64.bin -i gui
AIX	Informatica_RTAM_31_HF1_AIX64.bin -i gui
Solaris	Informatica_RTAM_31_HF1_Solaris_x86.bin or Informatica_RTAM_31_HF1_Solaris_SPARC.bin

2. In the **Welcome - RTAM 3.1 HF1** page, click **Next**.

   The **Choose Install Set** page appears.
3. Select the install type.
   - Select **Full** to configure and deploy the entire Real-Time Alert Manager package to the application server.

- Select **Software Only** to create the RTAM folder in the staging directory. Use the **Software Only** install option when performing manual installs.

4. Click **Next**.

   The **Pre-installation Tasks** page appears.

5. Verify the installation requirements, and click **Next**.

   The **Choose Staging Folder** page appears.

6. Specify the staging directory in which to install and configure the Real-Time Alert Manager application files.

   The name of the staging directory must not contain space.
   The following table shows the default location of the staging directory:

Operating System	File Path
Windows	`C:\Informatica RTAM 3.1 HF1`
Linux, AIX, and Solaris	`/home/Informatica RTAM 3.1 HF1`

   If you choose **Software Only** install type, the installer creates the RTAM folder in the staging directory after this step, and exits.

7. Click **Next**.

   The **Tomcat 6 - Application Server Configuration** page appears.

8. Enter the directory path of the Apache Tomcat 6 application server.
9. Click **Next**.

   The **Database Configuration** page appears.

10. Select the **Database Version** and enter the path to the database driver.

    Select one of the following versions:

    - Oracle 11.1, 11.2
    - Oracle 10.2
    - Microsoft SQL Server 2008 R2 using JTDS driver
    - IBM DB2 9.5.5 or IBM DB2 9.7

    If you choose **IBM DB2 9.5.5** or **IBM DB2 9.7**, you must provide a valid DB2 license.

11. Click **Next**.

    The **Database Configuration** page appears.

12. Enter the database connection information for the repository.

    The following table describes the properties that you specify for the database connection:

Property	Description
JDBC Driver Class	JDBC driver class for the database driver.
Database Host	Host address of the Real-Time Alert Manager database.

Property	Description
Database Port	Port number of the Real-Time Alert Manager database.
SID Name	Service name for Oracle and IBM DB2 databases. Database name for Microsoft SQL Server database.

13. Click **Next**.

    The **Database Configuration - Repository User Account** page appears.
14. Enter the user name and the password for the repository user.
15. Click **Next**.

    The **Authentication Configuration** page appears.
16. Select one of the following values:
    - Microsoft Active Directory (AD) through LDAP
    - LDAP with other provider
    - Local Authentication in RulePoint Repository
17. Click **Next**.
    - If you select the authentication type as **Microsoft Active Directory (AD) through LDAP**, the **Authentication Configuration - Active Directory** page appears. Enter the required configuration information for the Active Directory server, and click **Next**.
    - If you select the authentication type as **LDAP with other provider**, the **Authentication Configuration - LDAP** page appears.
      1. Enter the configuration information for the LDAP server, and click **Next**.
      2. The **Authentication Configuration - Administrator Groups** page appears.
      3. Specify the required administrator groups here, and click **Next**.
    - If you select the authentication type as **Local Authentication in RulePoint Repository**, the **RulePoint Authentication Database Information** page appears.
      1. Select a **Database Type** and enter the path to the database driver.
      2. Click **Next**.
      3. The **Authentication Configuration** page appears. Enter the required connection information for the RulePoint database and click **Next**.
18. The **Pre-Installation Summary** page appears.
19. Review the installation summary, and click **Install**.
20. In the **Deploy RTAM to Tomcat 6** page, choose whether to deploy to Tomcat 6 and click **Next**.

    If you choose to **Deploy to Tomcat 6**, the installer creates a backup of the RTAM folder existing in `%CATALINA_HOME%\webapps` directory into `%CATALINA_HOME%` root directory. The installer then deploys the new RTAM folder in `%CATALINA_HOME%\webapps` directory.

    If you choose to **Skip this step**, you have to manually deploy the RTAM folder to the `%CATALINA_HOME%\webapps` directory.
21. Click **Next**.
22. Click **Done** to complete the installation procedure and then exit the installer.

Installing in Console Mode

You can install Real-Time Alert Manager in console mode on Windows, Linux, AIX, or Solaris.

Shut down all instances of the Tomcat application server before you run the installer.
Install Real-Time Alert Manager and the Apache Tomcat 6 application server on the same machine. Real-Time Alert Manager requires a separate and exclusive instance of Tomcat application server.

Note: When you run the installer in console mode, the words Quit and Back are reserved words. You cannot use the reserved words as input text during installation.

1. On the command prompt for Windows or on a shell command line for Linux, AIX, and Solaris, run the Real-Time Alert Manager installer from the root directory.
2. Enter the Real-Time Alert Manager executable name with the option -i console.
   - For Windows, enter `Informatica_RTAM_31_HF1.exe -i console`.
   - For Linux, enter `Informatica_RTAM_31_HF1_Linux64.bin -i console`.
   - For AIX, enter `Informatica_RTAM_31_HF1_AIX64.bin -i console`.
   - For Solaris, enter `Informatica_RTAM_31_HF1_Solaris_x86.bin -i console` or `Informatica_RTAM_31_HF1_Solaris_SPARC.bin -i console`.
3. In the **Welcome - RTAM 3.1 HF1** section, press **Enter**.

   The **Choose Install Set** section appears.
4. Enter the install type.
   - Enter `1` for **Full** installation to configure and deploy the entire Real-Time Alert Manager package to the application server.
   - Enter `2` for **Software Only** installation to create the RTAM folder in the staging directory. Use the Software Only install option when performing manual installs.
5. Press **Enter**.

   The **Pre-installation Tasks** section appears.
6. Verify the installation requirements, and press **Enter**.

   The **Choose Staging Folder** section appears.
7. Specify the staging directory in which to install and configure the Real-Time Alert Manager application files.

   The following table shows the default location of the staging directory:

Operating System	File Path
Windows	`C:\Informatica RTAM 3.1 HF1`
Linux, AIX, and Solaris	`/home/Informatica RTAM 3.1 HF1`

   Important:
   - If you choose **Software Only** install type, the installer creates the RTAM folder in the staging directory after this step, and exits.
   - Ensure that the name of the staging directory does not contain space.
8. Press **Enter**.

   The **Tomcat 6 - Application Server Configuration** section appears.

9. Enter the directory path of the Apache Tomcat 6 application server.
10. Press **Enter**.

    The **Database Configuration** section appears.
11. Enter the **Database Version**.

    Enter one of the following **Database Version**:

    - 1 - Oracle 11.1, 11.2
    - 2 - Oracle 10.2
    - 3 - Microsoft SQL Server 2008 R2 using JTDS driver
    - 4 - IBM DB2 9.5.5 or IBM DB2 9.7

    If you choose **IBM DB2 9.5.5** or **IBM DB2 9.7**, you must provide a valid DB2 license.
12. Specify the corresponding database driver. Enter the file name of the database driver and its full path.

    Note: Ensure that the database driver version matches the version of the installed database. When possible, use the drivers shipped with the database.
13. Press **Enter**.

    The **Database Configuration** section appears.
14. Enter the database connection information for the repository.

    The following table describes the properties that you specify for the database connection:

Property	Description
JDBC Driver Class	JDBC driver class for the database driver.
Database Host	Host address of the Real-Time Alert Manager database.
Database Port	Port number of the Real-Time Alert Manager database.
SID Name	Service name for Oracle and IBM DB2 databases. Database name for Microsoft SQL Server database.

15. Press **Enter**.

    The **Database Configuration - Repository User Account** section appears.
16. Enter the user name and the password for the repository user.
17. Press **Enter**.

    The **Authentication Configuration** section appears.
18. Specify one of the following values:

    - 1 - Microsoft Active Directory (AD) through LDAP
    - 2 - LDAP with other provider
    - 3 - Local Authentication in RulePoint Repository
19. Enter the number of your choice.

    - If you specify the authentication type as **Microsoft Active Directory (AD) through LDAP**, the **Authentication Configuration - Active Directory** section appears. Enter the required configuration information for the Active Directory server, and press **Enter**.

- If you specify the authentication type as **LDAP with other provider**, the **Authentication Configuration - LDAP** section appears.
    1. Enter the configuration information for the LDAP server, and press **Enter**.
    2. The **Authentication Configuration - Administrator Groups** section appears.
    3. Specify the required administrator groups here, and press **Enter**.
- If you specify the authentication type as **Local Authentication in RulePoint Repository**, the **RulePoint Authentication Database Information** section appears.
    1. Select a **Database Type** and enter the path to the database driver.
    2. Press **Enter**.
    3. The **Authentication Configuration** section appears. Enter the required connection information for the RulePoint database and press **Enter**.

20. The **Pre-Installation Summary** section appears.
21. Review the installation summary, and press **Enter**.
22. In the **Deploy RTAM to Tomcat 6** section, specify any one of the following two options and press **Enter**.
    - 1- Deploy to Tomcat
    - 2 - Skip this step

    If you choose to **Deploy to Tomcat 6**, the installer creates a backup of the RTAM folder existing in `%CATALINA_HOME%\webapps` directory into `%CATALINA_HOME%` root directory. The installer then deploys the new RTAM folder in `%CATALINA_HOME%\webapps` directory.

    If you choose to **Skip this step**, you have to manually deploy the RTAM folder to the `%CATALINA_HOME%\webapps` directory.
23. Press **Enter** to complete the installation and exit the installer.

CHAPTER 4

After You Install

This chapter includes the following topic:

Validate the Installation

After completing the installation process, log in to Real-Time Alert Manager to ensure that the application has correctly installed.

1. Start the Tomcat application server.
2. Launch a web browser and enter the following URL:

   `http://HostName:port_number/RTAM`

   HostName is the host name or IP address of the server where you install Real-Time Alert Manager. The *port_number* is the HTTP port number of the Tomcat server. The default is 8080.

   The **Real-Time Alert Manager** login page appears.
3. Enter the administrator's credentials.

   By default, the user name and password is admin. Change the password immediately after logging in.
4. Click **Log In**.

   The **Informatica Real-Time Alert Manager** home page appears.

If you use LDAP or database as your authentication provider, see the *Informatica Real-Time Alert Manager Administrator Guide* for details on logging in and configuring the Real-Time Alert Manager installation.

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