



# Database and Middleware Automation

Software Version: 10.50.001.000

Linux, Solaris, AIX, HP-UX, and Windows

## Upgrade Guide

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# Upgrade

This section shows how to upgrade from DMA version 10.30.001.000, 10.40.000.000, 10.50.000.000 to 10.50.001.000. If you want to upgrade from any version earlier than 10.30.000, upgrade to 10.30.000.000 and 10.50.000, before you upgrade to 10.50.001.000.

## Security Note

As part of the upgrade from DMA from 10.21 (or earlier) to DMA 10.22 (or later), DMA changes the `server.xml` file to increase DMA security settings. recommends that you keep the settings as implemented by the upgrade process.

If you want to revert the `server.xml` file, you can find a backup in `/opt/hp/dma/server/save`.

**Note:** See the *DMA Release Notes* for information about backward compatibility.

**Tip:** To take advantage of the features and enhancements of the new 10.50.001.000 workflows, after you have upgraded the DMA server you must import the 10.50.001.000 solution pack, make a copy of the pertinent 10.50.001.000 workflow, and then merge your customizations into it.

- ["Pre-upgrade tasks" on page 5](#)
- ["Upgrade to DMA 10.50.001.000" on page 6](#)
- ["Roll back the upgrade" on page 11](#)

## Pre-upgrade tasks

Before you upgrade to DMA 10.50.001.000, you must perform the following tasks as the root user:

1. Create a backup of the database before starting this process.

**Caution:** You must create a backup of the database to be able to revert to the earlier version.

2. Stop DMA:

```
$ service dma stop
```

**Tip:** If there are multiple DMA servers configured to connect to a single database, you must stop all of them.

# Upgrade to DMA 10.50.001.000

Perform the following tasks to upgrade to DMA 10.50.001.000:

1. Go to the DMA 10.50.001.000 installation folder under the DMA\_10.50.001.000\_Server\_and\_Client folder.
2. Run the following command to upgrade the DMA server:

**Note:** If you are upgrading multiple DMA servers, run the command on each server.

**Note:** If you cut and paste from this PDF, make sure that the dashes (--) copy correctly.

```
$ rpm --upgrade dma-server-10.50.001.000-0.x86_64.rpm
```

**Note:** The new upload classes are in the server RPM file.

After the upgrade is complete, the following message is displayed:

Please redeem your licenses (using your SA ID) from Portal, using the <lock ID>. Server will be operational using the default license in place.

By default, DMA is installed with the -instantOn (trial) license.

**Note:** The -instantOn (trial) license is valid for 90 days. This is applicable for 10 database instances and 10 middleware instances.

Save the <Lock ID> for your reference, as it is needed to generate your license(s). You can generate the license(s) at [Software Licensing](#) website.

**Note:** The <Lock ID> is also available in the Licensing Dashboard at [Software Licensing](#) website, after you apply the valid license.

After generating the license, copy the file to `/opt/hp/dma/server/lic/licImport/` folder. You can choose to apply the license with the baseline command or later. For instructions to apply the license, see the [Applying the license](#) topic.

3. On one DMA server per SA server, use the baseline command to upgrade your database. Run the following commands as a root user. For example:

```
$ cd /opt/hp/dma/server/tomcat/webapps/dma/WEB-INF
```

**Note:** When you upgrade DMA you only need to use the baseline `-context` option because the following information is in the context file: `<database_username>`, `<database_password>`, and the JDBC connection string.

For readability, the option is listed on a separate line—you must build the command in a single line.

For a full description of all the baseline options, see the DMA baseline options topic in the *Installation Guide*.

**Caution:** When you run the baseline command exactly as given you will maintain your DMA database. If you use the `--erase` option you will lose your customized DMA data.

```
$ sh ./dmaBaselineData.sh
-context /opt/hp/dma/server/tomcat/conf/server.xml
```

**Note:** If you want to upgrade from 10.40.000.000 with custom tablespace to 10.50.001.000, baseline the database with `-tsda <data-tablespace_name>` and `-tsin <index-tablespacefile_name>` options. For example:

```
sh /opt/hp/dma/server/tomcat/webapps/dma/WEB-INF/dmaBaselineData.sh --
create-tables --create-context -tsda dca_data -tsin dca_indx --database-
username dma --database-password dma123 --jdbc-connection-string
jdbc:oracle:thin:@ <hostname>:1521:orcl --dma-hostname <hostname> --
database-type oracle
```

**Note:** You can run this command more than one time or on more than one DMAServers.

If you receive an error, see the Troubleshooting Guide.

4. Go to the DMA 10.50.001.000 installation folder under the DMA\_10.50.001.000\_Server\_and\_Client folder.
5. On one DMA server per SA server, run the following command to upgrade the DMA Client for SA:

**Note:** If you cut and paste from this PDF, make sure that the dashes (`--`) copy correctly.

```
$ rpm --upgrade dma-sa-client-10.50.001.000-0.x86_64.rpm
```

6. Have your SA administrator reinstall the DMA APX on the SA core.

For information about reinstalling the DMA APX, see the Import DMA APX section in the Integration Guide.

**Note:** The /DMA\_APX folder will not be created since it already exists

7. If you are also updating the SA core, rerun the script command to copy the required JAR files from the SA server to the DMA server. On your DMA server, run the following command (enter as a single line). For example:

```
$ sh /opt/hp/dma/server/tomcat/webapps/dma/WEB-INF/copyJars.sh
<SA_Server>
```

8. Have your SA administrator reinstall the DMA Client Files policy on the SA core.

To do this, follow the instructions in the Install DMA Client Files Policy topic in the Administration Guide:

- a. Use the same folder (/DMA\_Client) as in Step 1.
  - b. Repeat steps 2 and 3.
9. Have your SA administrator remediate the DMA Client Files policy on all managed servers using that policy:

**Note:** All servers attached to the policy that has changed must be remediated.

Make sure that,

- o all of the managed servers are visible to you.
  - o you have write permission.
- a. Open the policy.
  - b. Go to **Server Usage** and select all the servers that have the policy attached to them.
  - c. Right-click and choose **Remediate**.
- Tip:** If you have multiple servers, you can remediate the servers using groups.
- d. Click **Start Job**.

**Tip:** If you do not remediate the policy for a server you will receive an error "Policy must be remediated" when you run a workflow that uses that server as a target.

10. Restart all DMA servers using the following command:

```
$ service dma start
```

**Note:** When you upgrade to DMA 10.50 from an earlier version, DMA is not FIPS compliant. You can enable FIPS after upgrade. For instructions to enable FIPS, see the Enabling FIPS topic in the

| *Administration Guide.*

**To revert an upgrade from the DMA Server:**

**Caution:** You can only revert an upgrade if you created a backup of your database before you upgraded to version 10.50.001.000.

Perform the following steps to revert the DMA 10.50.001.000 upgrade:

**Note:** The upgrade is reverted to the version that you had upgraded from. For example, if you had upgraded from DMA10.40.000 to 10.50.000, when you revert the upgrade is reverted to DMA10.40.000.

1. Stop the DMA server, as root:

```
$ service dma stop
```

2. Restore the database from the backup.

3. Run the following command to revert to DMA 10.40.000.000. For example:

**Note:** If you cut and paste from this PDF, make sure that the dashes (--) copy correctly.

```
$ rpm --upgrade --oldpackage dma-server-10.40.000.000-0.x86_64.rpm
```

4. Upload and reinstall the DMA 10.40.000.000 APX.
5. Detach the DMA Client Files policy from all managed servers and then remediate.
6. Delete the DMA Client Files policy and all packages in the /DMA\_Client folder and then reinstall the policy using the policy install process from DMA 10.40.000.000.
7. Attach the DMA Client Files policy to all desired managed servers and then remediate again.
8. Restart the DMA server:

```
$ service dma start
```

After you have upgraded to DMA10.50.001.000, you must integrate with Server Automation. For information about integrating with Server Automation, see the *Integration Guide*.

## Roll back the upgrade

Perform the following steps to revert the DMA 10.50.001.000 upgrade:

**Caution:** You can only revert an upgrade if you created a backup of your database before you upgraded to version 10.50.001.000.

**Note:** The upgrade is reverted to the version that you had upgraded from. For example, if you had upgraded from DMA10.40.000 to 10.50.001.000, when you revert the upgrade is reverted to DMA10.40.000.

1. Stop the DMA server, as root:

```
$ service dma stop
```

2. Restore the database from the backup.

3. Run the following command to revert to DMA 10.40.000.000. For example:

**Note:** If you cut and paste from this PDF, make sure that the dashes (--) copy correctly.

```
$ rpm --upgrade --oldpackage dma-server-10.40.000.000-0.x86_64.rpm
```

4. Upload and reinstall the DMA 10.40.000.000 APX.
5. Detach the DMA Client Files policy from all managed servers and then remediate.
6. Delete the DMA Client Files policy and all packages in the `/DMA_Client` folder and then reinstall the policy using the policy install process from DMA 10.40.000.000.
7. Attach the DMA Client Files policy to all desired managed servers and then remediate again.
8. Restart the DMA server:

```
$ service dma start
```

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