



Upgrading IoT FND

This section contains the following IoT FND upgrade topics:

- [Pre-Upgrade Checklist, on page 1](#)
- [Verifying Certificates and System Requirements, on page 1](#)
- [Upgrading IoT FND and IoT FND TPS Proxy, on page 2](#)
- [Post-Upgrade Checklist, on page 3](#)
- [Upgrade FND in HA Configuration or Clustered Mode, on page 4](#)

Pre-Upgrade Checklist

The section identifies the tasks that can be performed before you begin your upgrade to ensure a successful upgrade and limited downtime.

- Back up application directory. For example, if you want to upgrade **cgms RPM**, then you must back up the **/opt/cgms** folder. For more information, refer to [Installing or Upgrading the SSM Server](#)



Note After upgrade, the manual changes made to the application scripts are lost.

- Back up database. For more information, refer to [Creating a Full Backup of the IoT FND Database, Backing Up the IoT FND Database Incrementally](#)

Verifying Certificates and System Requirements

This section describes how to verify certificates and the system requirements for the upgrade procedure.

- [Generating and Exporting Certificates](#)
- [System Requirements](#)

Upgrading IoT FND and IoT FND TPS Proxy



Note It is not necessary to stop the database during normal upgrades. All upgrades are in-place.



Note For virtual IoT FND installations using custom security certificates, see [Managing Custom Certificates](#) before performing upgrade.



Caution Run the following steps sequentially.

To upgrade the IoT FND application:

- Step 1** Obtain the new IoT FND ISO from [Cisco](#).
- Step 2** Extract the `cgms rpms` into a directory from the FND release ISO file.
- Step 3** Run `rpm -qa | grep cgms` to get the list of rpms installed in the application server.
- Step 4** Run the following command to stop IoT FND.

RHEL Version	Command
8.x	<code>systemctl stop cgms</code>
7.x	<code>service cgms stop</code>

Note The application typically takes approximately 10 seconds to stop.

- Step 5** Run `ps | grep java` to verify that no Java processes are running.
- Step 6** Run the following command to make sure that the `cgms` service has stopped.

RHEL Version	Command
8.x	<code>systemctl status cgms</code>
7.x	<code>service cgms status</code>

- Step 7** Run the following script to upgrade the IoT FND RPM.

IoT FND Release	Command
Upgrade to 4.11.0 from any earlier release.	<pre>rpm -Uvh <new_cgms_rpm_filename> --force</pre> <p>For example, to upgrade to IoT FND release 4.11.0, run the following command.</p> <pre>rpm -Uvh cgms-4.11.0-46.x86_69.rpm --force</pre>

IoT FND Release	Command
Upgrades prior to release 4.11.0.	<code>rpm -Uvh <new_cgms_rpm_filename></code>

Note We recommend you to upgrade all the installed **rpms** with the same FND version that you will upgrade to. The new *rpm* files overwrite the existing files in **/opt/cgms**.

Note For TPS Proxy, the rpm is bundled in the [IoT FND ISO](#) file. Extract the rpm file and copy the rpm to a TPS server. Run the rpm upgrade command `rpm -Uvh cgms-tpsproxy-<fndversion>.rpm` on TPS server.

Step 8 Run `./db-migrate` in **/opt/cgms/bin** directory to upgrade the database.

Note Ensure that you run the **db-migrate** script after each upgrade.

Step 9 Enter the database password when prompted.

Note The default password is **cgms123**.

Step 10 Run the following command to start IoT FND.

RHEL Version	Command
8.x	<code>systemctl start cgms</code>
7.x	<code>service cgms start</code>

Note You can also use the RHEL (Red Hat Enterprise Linux) GUI to start the IoT FND service (**ADMIN > System Management > Server Settings > Services**).

Post-Upgrade Checklist

This section describes the tasks that you have to perform post upgrade:



Note Any manual changes made to the **cgms** scripts are lost post upgrade; therefore, you have to make the changes again.

- Run **setupCgms** script to reconfigure FND.



Note The **setupCgms** script provides information on new configurations that are part of this FND upgrade.

- Run **DB migrate** script to upgrade the database.
- Start **cgms service** to monitor the status.

Upgrade FND in HA Configuration or Clustered Mode

This section provides the tasks for upgrading IoT FND in high-availability (HA) configuration or clustered mode:

- Upgrade Oracle DB. For more information, refer to [Upgrading the IoT FND Database](#).
- Stop all application servers that are part of the cluster.
- Upgrade all the FND applications.
- Run **db-migrate** post upgrade in one of the application servers.
- Start FND service one by one.