

HP Network Node Manager iSPI for IP Multicast

For the Windows[®] operating system

Software Version: 10.00

Upgrade Reference

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Chapter 1: About this Guide

This guide contains information for upgrading from the following NNM iSPI for IP Multicast versions to the NNM iSPI for IP Multicast 10.00:

- NNM iSPI for IP Multicast version 9.10
- NNM iSPI for IP Multicast version 9.20
- NNM iSPI for IP Multicast version 9.21

Environment Variables Used in the NNM iSPI for IP Multicast Documents

The NNM iSPI for IP Multicast documents use the following NNMi environment variables to refer to file and directory locations. The default values are listed here. Actual values depend upon the selections made during NNMi installation.

The NNMi installation process creates the following system environment variables:

- *%NnmInstallDir%*: <drive>\Program Files\HP\HP BTO Software
- *%NnmDataDir%*:<drive>\ProgramData\HP\HP BTO Software

Chapter 2: Upgrading to the NNM iSPI for IP Multicast Version 10.00

Before you start upgrading the NNM iSPI for IP Multicast from 9.1x to newer version, make sure that you upgrade NNMi 9.1x or 9.2x series to 10.00. For upgrading NNMi from earlier versions, see the *NNMi Deployment Reference*.

License for Upgrading from the Earlier Versions

If you are upgrading from the earlier versions of the NNM iSPI for IP Multicast, then you can obtain the NNM iSPI for IP Multicast, 10.00 upgrade licenses. You can contact HP sales to know about your upgrade license entitlement based on your order number for the earlier versions of the NNM iSPI for IP Multicast.

License for Upgrading from the Version 9.10 or 9.20 to Version 10.00

To upgrade to the NNM iSPI for IP Multicast, 10.00 from versions 9.10 or 9.20 the Contract Migration is *not* required as all these versions use the same LTU's SKU. You need the media product number only. The NNM iSPI for IP Multicast, 10.00 is password protected product, so you have to acquire your technical password migration. You can obtain your password from the following URL http://support.openview.hp.com/software_updates.jsp.

Upgrading from Version 9.10 to Version 10.00

Note: When you upgrade to Version 10.00, the migration of software and configuration take place. The data migration does not take place. You have to re-discover your multicast devices.

To upgrade the NNM iSPI for IP Multicast from version 9.10 to version 10.00, follow these steps:

1. Log on to the management server with `Administrator` privileges.
2. Upgrade NNMi from version 9.10 to version 10.00.
3. Stop the Multicast process by running the following command:

```
ovstop -c mcastjboss
```
4. *Oracle database only.* Drop the following Oracle tables manually:

- mcast_mcfowmon_status_history
- mcast_mcnod_status_history
- multicast_group_ipmr
- multicast_ipm_entry_count
- multicast_mcast_octets
- multicast_mcbaseline_tree
- multicast_mcfow
- multicast_mcfow_attrs
- multicast_flowspecific_monconf
- multicast_mcfowmon_attr
- multicast_mcfowmon_concl
- multicast_mcfowmon_status
- multicast_mcgrou
- multicast_mcif_concl
- multicast_mcif_mon
- multicast_mcif_status
- multicast_mcif_status_history
- multicast_mcinterface
- multicast_mcneighbor
- multicast_mcnod
- multicast_mcnod_concl
- multicast_mcnod_mon
- multicast_mcnod_status
- multicast_mcsample_tree
- timers

- jbm_counter
 - jbm_dual
 - jbm_id_cache
 - jbm_msg
 - jbm_msg_ref
 - jbm_postoffice
 - jbm_role
 - jbm_tx
 - jbm_tx_ex
 - jbm_user
5. Insert the NNM iSPI for IP Multicast installation media into the CD-ROM drive. The CD-ROM starts automatically. If the installation does not start, double-click the setup.exe file. The installation wizard opens.
- If the Application requirement check warnings dialog box opens, review each warning, and take appropriate actions.
6. In the **Introduction (Upgrade)** screen, check the NNM iSPI for IP Multicast information, and then click **Next**.
7. On the **License Agreement** page, check the NNM iSPI for IP Multicast license terms. If you agree with the terms of the license agreement, click **I accept...**; and then click **Next**. On the **Select the Installation Type** screen, select **Typical**, and then click **Next**.
8. In the **Install Checks** screen, click **Next**.
9. Click **Upgrade** to start the upgrade process.
10. When the upgrade process is complete, click **Done**.
11. Start Mcast jboss by running the command: `ovstart -c mcastjboss`.

Upgrading from Version 9.20 to Version 10.00

Note: When you upgrade to Version 10.00, the migration of software and configuration take place. The data migration does not take place. You have to re-discover your multicast devices.

To upgrade the NNM iSPI for IP Multicast from version 9.20 to version 10.00, follow these steps:

1. Log on to the management server with `Administrator` privileges .
2. Upgrade NNMi from version 9.20 to version 10.00.
3. Stop the Multicast process by running the following command:

```
ovstop -c mcastjboss
```

4. *Oracle database only.* Drop the following Oracle tables manually:

- `mcast_mcflowmon_status_history`
- `mcast_mcnode_status_history`
- `multicast_group_ipmr`
- `multicast_ipm_entry_count`
- `multicast_mcast_octets`
- `multicast_mcbaseline_tree`
- `multicast_mcflow`
- `multicast_mcflow_attrs`
- `multicast_flowspecific_monconf`
- `multicast_mcflowmon_attr`
- `multicast_mcflowmon_concl`
- `multicast_mcflowmon_status`
- `multicast_mcgroup`
- `multicast_mcif_concl`
- `multicast_mcif_mon`
- `multicast_mcif_status`
- `multicast_mcif_status_history`
- `multicast_mcinterface`
- `multicast_mcneighbor`
- `multicast_mcnode`

- multicast_mcnode_concl
 - multicast_mcnode_mon
 - multicast_mcnode_status
 - multicast_mcsample_tree
 - timers
 - jbm_counter
 - jbm_dual
 - jbm_id_cache
 - jbm_msg
 - jbm_msg_ref
 - jbm_postoffice
 - jbm_role
 - jbm_tx
 - jbm_tx_ex
 - jbm_user
5. Insert the NNM iSPI for IP Multicast installation media into the CD-ROM drive. The CD-ROM starts automatically. If the installation does not start, double-click the setup.exe file. The installation wizard opens.
- If the Application requirement check warnings dialog box opens, review each warning, and take appropriate actions.
6. In the **Introduction (Upgrade)** screen, check the NNM iSPI for IP Multicast information, and then click **Next**.
7. On the **License Agreement** page, check the NNM iSPI for IP Multicast license terms. If you agree with the terms of the license agreement, click **I accept...**; and then click **Next**. On the **Select the Installation Type** screen, select **Typical**, and then click **Next**.
8. In the **Install Checks** screen, click **Next**.
9. Click **Upgrade** to start the upgrade process.
10. When the upgrade process is complete, click **Done**.
11. Start Mcast jboss by running the command: `ovstart -c mcastjboss`.

Upgrading from Version 9.21 to Version 10.00

Note: When you upgrade to Version 10.00, the migration of software and configuration take place. The data migration does not take place. You have to re-discover your multicast devices.

To upgrade the NNM iSPI for IP Multicast from version 9.21 to version 10.00, follow these steps:

1. Log on to the management server with `Administrator` privileges .
2. Upgrade NNMi from version 9.21 to version 10.00.
3. Stop the Multicast process by running the following command:

```
ovstop -c mcastjboss
```

4. *Oracle database only.* Drop the following Oracle tables manually:

- `mcast_mcflowmon_status_history`
- `mcast_mcnode_status_history`
- `multicast_group_ipmr`
- `multicast_ipm_entry_count`
- `multicast_mcast_octets`
- `multicast_mcbaseline_tree`
- `multicast_mcflow`
- `multicast_mcflow_attrs`
- `multicast_flowspecific_monconf`
- `multicast_mcflowmon_attr`
- `multicast_mcflowmon_concl`
- `multicast_mcflowmon_status`
- `multicast_mcgroup`
- `multicast_mcif_concl`
- `multicast_mcif_mon`
- `multicast_mcif_status`

- multicast_mcif_status_history
 - multicast_mcinterface
 - multicast_mcneighbor
 - multicast_mcnode
 - multicast_mcnode_concl
 - multicast_mcnode_mon
 - multicast_mcnode_status
 - multicast_mcsample_tree
 - timers
 - jbm_counter
 - jbm_dual
 - jbm_id_cache
 - jbm_msg
 - jbm_msg_ref
 - jbm_postoffice
 - jbm_role
 - jbm_tx
 - jbm_tx_ex
 - jbm_user
5. Insert the NNM iSPI for IP Multicast installation media into the CD-ROM drive. The CD-ROM starts automatically. If the installation does not start, double-click the **setup.exe** file. The installation wizard opens.
- If the Application requirement check warnings dialog box opens, review each warning, and take appropriate actions.
6. In the **Introduction (Upgrade)** screen, check the NNM iSPI for IP Multicast information, and then click **Next**.

7. On the **License Agreement** page, check the NNM iSPI for IP Multicast license terms. If you agree with the terms of the license agreement, click I **accept...**; and then click **Next**. On the **Select the Installation Type** screen, select **Typical**, and then click **Next**.
8. In the **Install Checks** screen, click **Next**.
9. Click **Upgrade** to start the upgrade process.
10. When the upgrade process is complete, click **Done**.
11. Start Mcast jboss by running the command: `ovstart -c mcastjboss`.

Chapter 3: Upgrading the NNM iSPI for IP Multicast in an HA Cluster

To upgrade the NNM iSPI for IP Multicast to the version 10.00 in an HA cluster, follow these steps:

1. On the primary (active) node in the cluster, follow these steps:
 - a. Put the NNMi resource group to the HA maintenance mode by placing the `maintenance` file under the following directory:

`%nnmdatadir%\hacluster\<resource_group_name>`
 - b. Upgrade NNMi to the version 10.00. For more information, see the *NNMi Upgrade Reference, 10.00*.
 - c. Run `ovstart -c ovjboss` to start NNMi jboss .
 - d. Upgrade the NNM iSPI for IP Multicast to the version 10.00.
 - e. Make sure that the following files from the `%NnmdataDir%\shared\multicast\conf` contain the virtual FQDN for the following parameters :

File Name	Variable Name
nms-multicast.jvm.properties	-Dnmsas.server.security.keystore.alias
nnm.extended.properties	com.hp.ov.nms.spi.multicast.Nnm.hostname
nnm.extended.properties	com.hp.ov.nms.spi.multicast.spi.hostname

- f. Make sure that the `server.properties` file from the `%nnmdatadir%\nmsas\multicast` directory contains the virtual FQDN of the NNMi management server for the `java.rmi.server.hostname` and `nmsas.server.net.hostname.private` parameters).
 - g. Make sure that the `login-config.xml` file from the `%nnminstalldir%\multicast\server\c` directory contains the virtual FQDN of the NNMi management server (for the `module-option` element).
 - h. Modify the relevant files in the following directory with the up-to-date information on both the primary and secondary cluster nodes:

`%NnmDataDir%\shared\multicast\conf`

2. On the secondary (passive) node in the cluster, follow these steps:

- a. Put the NNMi resource group to the HA maintenance mode by placing the **maintenance** file under the following directory:
- b. Upgrade NNMi to the version 10.00.
- c. Make sure that NNMi is *not* running.
- d. Upgrade the NNM iSPI for IP Multicast to the version 10.00.

Note: The NNM iSPI for IP Multicast displays two error messages: create db user and create DB. Ignore these errors and continue with the installation.

- e. Make sure that the following files from the `%NnmdataDir%\shared\multicast\conf` contain the virtual FQDN for the following parameters :

File Name	Variable Name
nms-multicast.jvm.properties	-Dnmsas.server.security.keystore.alias
nnm.extended.properties	com.hp.ov.nms.spi.multicast.Nnm.hostname
nnm.extended.properties	com.hp.ov.nms.spi.multicast.spi.hostname

- f. Make sure that the `server.properties` file from the `%nnmdatadir%\nmsas\multicast` directory contains the virtual FQDN of the NNMi management server for the `java.rmi.server.hostname` and `nmsas.server.net.hostname.private` parameters).
 - g. Make sure that the `login-config.xml` file from the `%nnminstalldir%\multicast\server\conf` directory contains the virtual FQDN of the NNMi management server (for the `module-option` element).
 - h. Modify the relevant files in the following directory with the up-to-date information on both the primary and secondary cluster nodes:

`%NnmDataDir%\shared\multicast\conf`
3. Repeat "[On the secondary \(passive\) node in the cluster, follow these steps:](#)" on the previous page on each passive node.

Remove the maintenance file from all passive nodes in the cluster
 4. Stop all the processes on primary server by running `ovstop -c`.
 5. Run the `Nnmhastartrg.ovpl` command on the primary server. Once the resource group is online and all the processes are running, remove the maintenance file from the primary server.

Note: When the Primary system fails-over to the Secondary standby system, the cluster

software may bring down the NNMi on Primary unless it is a system failure. In such a scenario, sometimes the ovstop on "mcastjboss" may not be successful. After the fail-over from one cluster member to other member, make sure that the NNMi and NNM iSPI for IP Multicast are stopped successfully on the failed system. Terminate the java process of mcastjboss. The corresponding java process for mcastjboss can be found using the *Task Manager*.

The timeout parameters on Cluster software must be tuned during the HA deployment. The important timeout parameters for Veritas Cluster Software are OfflineTimeout, OnlineTimeout, and MonitorTimeout. In the case of Windows Cluster Manager software, consider tuning Pending Timeout and Deadlock Timeout parameters. These parameters are to be modified accordingly when two or more iSPI add-on products are installed as well.

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