

SOLARWINDS TECHNICAL REFERENCE

Orion NPM Migration

Introduction.....	3
General Requirements	3
Database Requirements	3
Stopping Orion NPM Services	4
Creating and Restoring Orion NPM Database Backups.....	4
Creating a Database Backup File with SQL Server Management Studio Express	5
Creating a Database Backup File with SQL Server Management Studio	6
Restoring a Database Backup File for SQL Express Server	7
Restoring a Database Backup File for SQL Server 2005	7
Restoring a Database Backup File for SQL Server 2008	8
Updating Orion NPM to Use the New Database Server.....	9
Reassigning Nodes	10
Copying Custom Reports	11
Updating Report Schemas.....	12
Moving APM to a New Server.....	12
Moving the Orion NCM Integration Component.....	13
Migrating Licenses with License Manager	15
Installing License Manager	15
Using License Manager	16
Uninstalling Orion NPM from the Old Server ...	16
Moving Older Map Maker Maps.....	16

This technical reference includes steps to complete a successful Orion Network Performance Monitor (Orion NPM) server migration. Depending on the complexity of your implementation, you may need to perform a number of different procedures when transferring Orion NPM and any modules to different hardware. This document guides you through the following migration procedures:

- Migrating Licenses
- Installing Orion NPM on the new server
- Reassigning nodes to the new polling engine
- Moving custom reports to the new server
- Updating report schemas
- Uninstalling Orion NPM from the old server
- Moving custom Map Maker maps to the new server

If you have any questions about this process, please contact support@solarwinds.com.

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Introduction

Migrating Orion NPM to a different server is a process that can take as little as 30 minutes or as long as several hours, depending on the size of your Orion NPM database. Consider scheduling an appropriate maintenance window in which to perform your migration. The process involves deactivating the licenses of your products, stopping the services, migrating the products, and then uninstalling your previous installation.

General Requirements

Moving your Orion NPM implementation to a new server requires the following:

- Server hardware meeting minimum requirements for the new Orion NPM implementation. For more information about Orion NPM requirements, see “Installing SolarWinds Orion Network Performance Monitor” in the *SolarWinds Orion Network Performance Monitor Administrator Guide*.
- Windows user account credentials that have been granted administrative rights on both servers.
- A license reset to register Orion NPM on your new server. You will need to install SolarWinds License Manager to manage the required license migration. For more information, see “Maintaining Licenses with License Manager” in the *SolarWinds Orion Network Performance Monitor Administrator Guide*.

Note: Maps and map objects created or edited in Orion Network Atlas are stored in the Orion database. If the database is successfully migrated, there is no need to migrate any additional Network Atlas map files. For more information about migrating your Orion database, see “Moving Your Orion NPM Database” at <http://www.solarwinds.com/support/orion/orionDoc.aspx>.

Database Requirements

Ensure that you comply with the following requirements before you attempt to modify or back up your existing database:

- Orion NPM version 10.0 requires SQL Server 2005 SP1 or later, including SQL Server 2008.
- Install your new database server. The following procedures assume you are moving your database from one physical server to another and that the management tool (Enterprise Manager, SQL Server Management Studio Express, or SQL Server Management Studio) is installed on the new database server.
- If you want to use a Microsoft SQL Server Express database, recognize that the database store is limited to 4GB.
- Know the `sa` password to both your existing Orion NPM database server and your new database server.
- Know the credentials to an account with administrator rights on both your existing Orion NPM database server and your new database server.
- Have a maintenance window during which you can safely shutdown your Orion NPM services. You need to stop data collection to ensure that your backup file matches your last active database state.

Stopping Orion NPM Services

It is important to stop the Orion NPM services that are currently writing to the database. This ensures that you do not have data inconsistencies when you bring your new database server online.

To stop Orion NPM services:

1. **If you are moving a database for Orion NPM version 8.5 or later**, click **Start > All Programs > SolarWinds Orion > Advanced Features > Orion Service Manager**.
2. Expand Services.
3. Click each service, except the SQL Server service, and then click **Stop**.

Notes:

- If you have more than one Polling Engine, you will need to stop each additional Polling Engine before continuing.
- Do not stop the SQL Service. The SQL Service needs to be running in order to make the necessary changes to the database.

4. Click **File > Exit**.

Creating and Restoring Orion NPM Database Backups

The following procedure walks you through a migration of Orion NPM from one server to another using the Orion Database Manager.

To migrate Orion NPM:

1. Log on to the computer that hosts your current Orion NPM server.
2. Click **Start > All Programs > SolarWinds Orion > Database Utilities > Database Manager**.
3. **If your SQL Server is not listed in the left pane**, add your server, as shown in the following steps:
 - a. Click **Add Server**.
 - b. Select the name of the SQL instance from the SQL Server list. If your server is not listed, type the name or IP address.
 - c. Select the appropriate authentication type, and then click **Connect to Database Server**.
4. Locate and right-click your database in the Database Manager tree in the left pane, and then click **Backup Database**.
5. Type a Description of the database backup, and then specify a Backup Filename, including the path.
Note: Click the ellipsis to directly select the Backup Filename.
6. Select either of the following options:
 - **If you want to attach your new database backup to the end of the selected backup file**, select **Append to the end of the Backup File**.
 - **If you want to overwrite the selected backup file**, select **Overwrite Backup File**.
7. Click **OK**.
8. **If you are moving the SQL database to the new Orion NPM server**, copy the new backup file (typically named `NetPerfMon.BAK`) to a folder on the new server.

9. Install Orion NPM on the new server, but DO NOT run the Configuration Wizard yet. Reboot the server if prompted, and then register the software.

Note: A new license key is required, and you will need to install SolarWinds License Manager to manage the required license migration. For more information, see “Maintaining Licenses with License Manager” in the *SolarWinds Orion Network Performance Monitor Administrator Guide*.

10. On the new server, click **Start > SolarWinds Orion > Database Utilities > Database Manager**.

11. **If your SQL Server is not listed in the left pane**, add your server, as shown in the following steps:

- a. Click **Add Server**.
- b. Select the name of the SQL instance from the SQL Server list. If your server is not listed, type the name or IP address.
- c. Select the appropriate authentication type, and then click **Connect to Database Server**.

12. Locate and right-click on your server in the Database Manager tree in the left pane, and then click **Connect to Server**.

13. **If you moved the SQL database to the new server**, perform the following steps:

- a. Click **Database > Restore Database**.
- b. Click the ellipsis to Select the Database file to Restore.
- c. **If you want to verify the validity of the selected database**, click **Verify**.
- d. Confirm or edit the name of the restored database in the Restore Database as the following Database name field.
- e. If you want to restore the database as .MDF or .LOG files, provide appropriate filenames in the Restore Database in the following MDF and LOG files fields.
- f. Click **OK**.

Note: Database Manager cannot create new folders. Therefore, specify a path that already exists.

14. Run the Configuration Wizard and specify the existing (or newly restored) database on the Database setup section of the wizard. When prompted, click **Yes** to use the existing database.

Note: DO NOT skip tabs or deviate from the tab order. Click **Start**, and then click **Continue** to complete the wizard in order. Completing tabs out of order may adversely affect the install process. For more information, see “Installing SolarWinds Orion Network Performance Monitor” in the *SolarWinds Orion Network Performance Monitor Administrator Guide*.

Creating a Database Backup File with SQL Server Management Studio Express

Complete the following procedure if your new database server uses SQL Server 2005 Express edition.

To backup your Orion database using SQL Server Management Studio Express:

1. Log on to the new database server using an administrator account.
2. Click **Start > All Programs > Microsoft SQL Server 2005 > SQL Server Management Studio Express**.
3. Specify the name of the current Orion NPM Database server on the Connect to Server window.
4. **If you are using SQL Server Authentication**, click **SQL Server Authentication** in the Authentication field, and then specify your credentials in the User name and Password fields.
5. Click **Connect**.
6. Expand the name of your Orion NPM server, and then expand **Databases** in the left pane.

7. Right-click the name of your Orion NPM database (for example, right-click **NetPerfMon**), and then click **Tasks > Backup**.
8. Click **Add**, and then specify and remember the Destination you provide. This is the directory and name of your backup. For example, you might specify `c:\NetPerfMon.bak`.
Note: Remember, this file is created on the remote database server. It is not created locally.
9. Click **Options** in the Select a page pane on the left.
10. Check **Verify backup when finished**.
11. Click **OK**.
12. Copy the `.bak` file from your current Orion NPM database server to your new database server.

Creating a Database Backup File with SQL Server Management Studio

Complete the following procedure if your new database server uses SQL Server 2005 or 2008.

To backup your Orion database using SQL Server Management Studio:

1. Log on to the new database server using an administrator account.
2. Click **Start > All Programs > Microsoft SQL Server 200X > SQL Server Management Studio**.
3. Specify the server name of the current Orion NPM Database server on the Connect to Server window.
4. **If you are using SQL Server Authentication**, click **SQL Server Authentication** in the Authentication field, and then specify your credentials in the User name and Password fields.
5. Click **Connect**.
6. In the pane on the left, expand the name of the server hosting the SQL instance you are using for Orion NPM, and then expand **Databases**.
7. Right-click the name of your Orion NPM database (for example, right-click **NetPerfMon**), and then click **Tasks > Back Up**.
8. In the Source area, select **Full** as the **Backup type**.
9. In the Backup set area, provide an appropriate **Name** and **Description** for your database backup.
10. **If there is not already an appropriate backup location listed in the Destination area**, click **Add**, and then specify and remember the destination path and file name you provide. This is the location where your backup is stored.
Note: Remember, if your database is on a remote server, as recommended, this backup file is also created on the remote database server. It is not created locally.
11. Click **Options** in Select a page pane on the left.
12. In the Reliability area, check **Verify backup when finished**.
13. Click **OK**.
14. Copy the `.bak` file from your current Orion NPM database server to your new database server.

Restoring a Database Backup File for SQL Express Server

Complete the following procedure if you are restoring your Orion NPM database backup file to a database server running SQL Express Server.

Note: Remember that SQL Express has a 4GB data store limitation. If at all possible, consider using a production version of SQL Server.

To restore your database backup file on a server running SQL Express Server:

1. Log on to the new database server using an administrator account.
2. Click **Start > All Programs > Microsoft SQL Server 2005 > SQL Server Management Studio Express**.
3. Click **File > Connect Object Explorer**.
4. Specify the name of the new Orion NPM Database server on the Connect to Server window.
5. **If you are using SQL Server Authentication**, click **SQL Server Authentication** in the Authentication field, and then specify your credentials in the User name and Password fields.
6. Click **Connect**.
7. Click the name of your server to view an expanded list of objects associated with your server.
8. Click **Databases**, and then click **Restore Database**.
9. Leave **To database** blank.
10. Click **From device**, and then browse (...) to the location of your .bak file.
11. Click **Add**, and then navigate to the .bak file and click **OK**.
12. Click **OK** on the Specify Backup window.
13. Check **Restore**.
14. Select the name of your database from the **To database** field. It will now be populated with the correct name. For example, select **NetPerfMon**.
15. Click **Options** in the left Select a page pane.
16. Check **Overwrite the existing database**.
17. Ensure you select a directory that already exists for the files listed in the Restore As column.
18. Click **OK**.
19. Open and run the configuration wizard to update your Orion NPM installation. For more information, see "Updating Orion NPM to Use the New Database Server" on page 9.

Restoring a Database Backup File for SQL Server 2005

Complete the following procedure if you are restoring your Orion NPM database backup file to a database server running SQL Server 2005.

To restore your database backup file on a server running SQL Server 2005:

1. Log on to the new database server using an administrator account.
2. Click **Start > All Programs > Microsoft SQL Server 2005 > SQL Server Management Studio**.
3. Click **File > Connect Object Explorer**.
4. Specify the name of the new Orion NPM Database server on the Connect to Server window.
5. **If you are using SQL Server Authentication**, click **SQL Server Authentication** in the Authentication field, and then specify your credentials in the User name and Password fields.

6. Click **Connect**.
7. Click the name of your server to view an expanded list of objects associated with your server, and then right-click **Databases**.
8. Click **Restore Database**.
9. Leave **To database** blank.
10. Click **From device**, and then browse (...) to the location of your .bak file.
11. Click **Add**, and then navigate to the .bak file and click **OK**.
12. Click **OK** on the Specify Backup window.
13. Check **Restore**.
14. Select the name of your database from the **To database** field. It will now be populated with the correct name. For example, select **NetPerfMon**.
15. Click **Options** in the left Select a page pane.
16. Check **Overwrite the existing database**.
17. For each Original File Name listed, complete the following steps to ensure a successful restoration:
 - a. Click **Browse (...)**.
 - b. Select a directory that already exists.
 - c. Provide a name for the **Restore As** file that matches the **Original File Name**, and then click **OK**.
18. Select **Leave the database ready to use by rolling uncommitted transactions...(RESTORE WITH RECOVERY)**.
19. Click **OK**.
20. Open and run the configuration wizard to update your Orion NPM installation. For more information, see "Updating Orion NPM to Use the New Database Server" on page 9.

Note: Due to the nature of security identifiers (SIDs) assigned to SQL Server 2005 database accounts, SolarWinds recommends that you create and use a new account for accessing your restored Orion database on the Database Account window of the Orion Configuration Wizard.

Restoring a Database Backup File for SQL Server 2008

Complete the following procedure if you are restoring your Orion NPM database backup file to a database server running SQL Server 2008.

To restore your database backup file on a server running SQL Server 2008:

1. Log on to the new database server using an administrator account.
2. Click **Start > All Programs > Microsoft SQL Server 2008 > SQL Server Management Studio**.
3. Click **File > Connect Object Explorer**.
4. Specify the name of the new Orion NPM Database server on the Connect to Server window.
5. **If you are using SQL Server Authentication**, click **SQL Server Authentication** in the Authentication field, and then specify your credentials in the User name and Password fields.
6. Click **Connect**.
7. Click the name of your server to view an expanded list of objects associated with your server, and then right-click **Databases**.
8. Click **Restore Database**.

9. Leave **To database** blank.
10. Select **From device**, and then click **Browse (...)**.
11. Confirm that **File** is selected as the Backup media.
12. Click **Add**.
13. Navigate to the `.bak` file, select it, and then click **OK**.
14. Click **OK** on the Specify Backup window.
15. In the Destination for restore area, select the name of your database from the **To database** field.
Note: The **To database** is now populated with the correct name. For example, select **NetPerfMon**.
16. Check **Restore** next to the database backup you are restoring.
17. Click **Options** in the left Select a page pane.
18. Check **Overwrite the existing database (WITH REPLACE)**.
19. For each Original File Name listed, complete the following steps to ensure a successful restoration:
 - a. Click **Browse (...)**.
 - b. Select a directory that already exists.
 - c. Provide a name for the **Restore As** file that matches the **Original File Name**, and then click **OK**.
20. Select **Leave the database ready to use by rolling uncommitted transactions...(RESTORE WITH RECOVERY)**, and then click **OK**.
21. Open and run the configuration wizard to update your Orion NPM installation. For more information, see "Updating Orion NPM to Use the New Database Server" on page 9.
Note: Due to the nature of security identifiers (SIDs) assigned to SQL Server 2008 database accounts, SolarWinds recommends that you create and use a new account for accessing your restored Orion database on the Database Account window of the Orion Configuration Wizard.

Updating Orion NPM to Use the New Database Server

After you have restored your Orion NPM database backup file, you must update your Orion NPM server to recognize the restored database on the new database server, as shown in the following procedure.

Note: In general, SolarWinds recommends that you use SQL Server Authentication with the `sa` login and password to ensure that Orion NPM can always access your SQL Server database, even when it is hosted remotely on a separate server.

To update Orion NPM to use a new database:

1. Log on to your Orion NPM server, and then
2. Click **Start > All Programs > SolarWinds Orion > Configuration and Auto-Discovery > Configuration Wizard**.

Note: In older versions of Orion NPM, the correct path may be **Start > All Programs > SolarWinds Orion > Configuration Wizard**.

3. Check **Database**, and then click **Next**.
4. Specify your new database server in the SQL Server field.

5. **If you want to use SQL authentication**, check **Use SQL Server Authentication**, and then provide the appropriate credentials.

Note: SolarWinds recommends that you use the `sa` login and password for your database server to ensure that you are able to properly configure the Orion database user account.

6. Click **Next**.
7. Select **Use an existing database**, select or type the Existing Database name, and then click **Next**.
8. **If you are prompted to use the existing database**, click **Yes**.
9. Select **Create a new account**, and then provide a **New Account** name.

Notes:

- Creating a new account ensures that Orion NPM has required access to your migrated database.
- The **New Account** must be a member of the securityadmin server role.
- The sysadmin role and the `sa` user account are always members of securityadmin.

10. Provide and confirm an account **Password**.
11. Click **Next** to start database configuration, and then click **Finish** to exit the Configuration Wizard

Reassigning Nodes

If a new name is used for the new Orion NPM server, it is added to the database as a new polling engine. All current nodes remain assigned to the old polling engine name and must be reassigned to the new polling engine, as shown in the following procedure.

To reassign items to the new polling engine:

1. **If you are migrating Orion NPM version 8.1 or earlier**, click **Start > All Programs > SolarWinds Orion Network Performance Monitor > Advanced Features > Shutdown NetPerfMon**.
2. **If you are migrating Orion NPM version 8.5 or later**, click **Start > All Programs > SolarWinds Orion > Advanced Features > Orion Service Manager**.

3. Stop all SolarWinds services.

Notes:

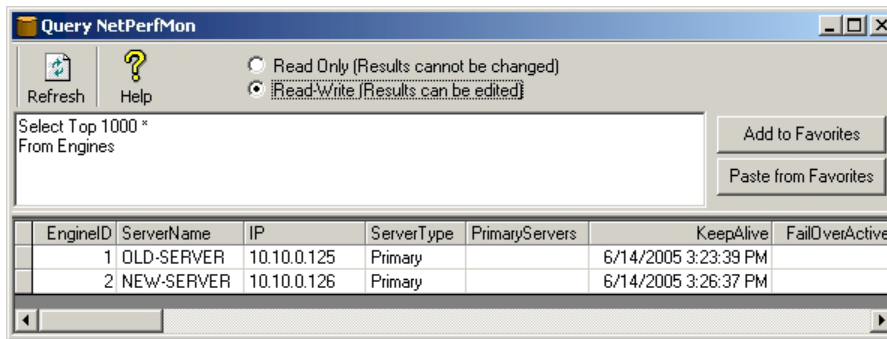
- If you have more than one Polling Engine, you will need to stop each additional Polling Engine before continuing.
- Do not stop the SQL Service. The SQL Service needs to be running in order to make the necessary changes to the database.

4. Click **File > Exit**
5. Click **Start > SolarWinds Orion > Database Utilities > Database Manager**.
6. Expand your SQL Server in the tree.
7. Expand the Orion database.

Note: By default, this database is named `NetPerfMon`.

8. Right-click on the Engines table, and then click **Query Table**.
9. Click **Refresh** to display the table entries.

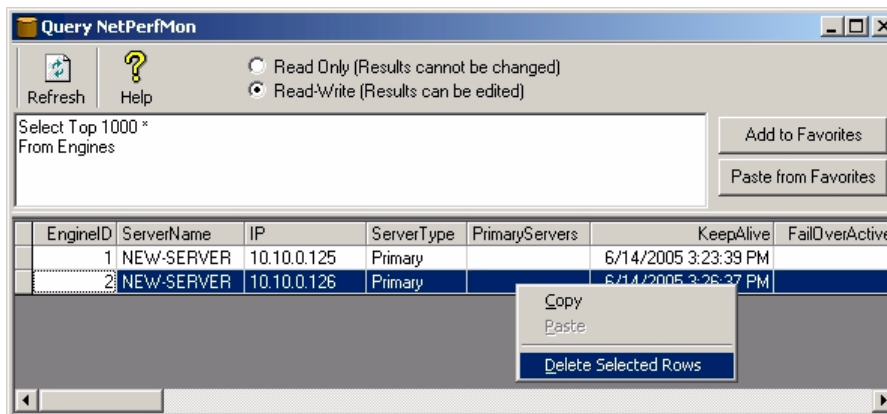
10. Select Read-Write (Results can be edited).



11. Replace the value in the **ServerName** field for the old polling engine with the server name of the new polling engine. In the previous graphic, the OLD-SERVER is renamed NEW-SERVER.

Note: It is not necessary to update the **IP** field. The next time the service is started, Orion NPM discovers the new IP address, and the **IP** field is updated automatically.

12. Delete the newly added engine from the table (EngineID: 2 in this example) by clicking on the blank area to the left of the row to select it. Right-click anywhere in the selected row, and then click **Delete Selected Rows**.



13. Click **Yes** when prompted to confirm deleting the row.

Note: The final result will display the new server name with the IP address of the old server. The next time the service starts, the **IP** field will be updated with the IP address of the new server.

14. Close Database Manager.

Copying Custom Reports

Complete the following task to copy your custom reports to the new Orion NPM server.

To copy your reports:

1. On the old server, copy your custom reports located in the `\Orion\Reports` folder.
2. Paste these reports into the `Orion\Reports` folder on the new server.

Updating Report Schemas

If you have added custom properties to the database, you will need to upgrade the report schemas on the new server. Updating the report schemas allows Report Writer to display and use custom property information.

To update report schemas for custom properties:

1. Ensure that Report Writer is closed, and then click **Start > All Programs > SolarWinds Orion > Advanced Features > Custom Property Editor**.
2. Right-click on the toolbar, and then click **Customize**
3. Click the **Commands** tab.
4. Click the **Properties** in the category list.
5. Drag **Update Report Schemas** to the toolbar to add a new button to the toolbar.
6. Close the **Customize** window.
7. Click **Update Report Schemas** on the toolbar.
8. Click **OK** after the custom properties have been added to the report schemas.
9. Close **Custom Property Editor**.

Moving APM to a New Server

Orion users that have the Application Performance Monitor (APM) module installed will need to follow the steps in this section. APM encrypts your sensitive data with a security certificate stored on the original Orion APM server. To grant a new server access to this encrypted data, you must copy the original security certificate to the new server.

Warning: If you do not replicate the original certificate, Orion APM on the new server cannot access any credentials used by your component monitors, and all of those component monitors will fail.

To replicate the original certificate:

1. Export the credential from the original server.
 - a. On the **Start** Menu, click **Run**, type `MMC`, and then click **OK**.
 - b. On the **File** menu, click **Add/Remove Snapin**, and then click **Add**.
 - c. Select **Certificates** and then click **Add**.
 - d. Select **Computer account** and then click **Next**.
 - e. Select **Local computer** and then click **Finish**.
 - f. Click **Close**.
 - g. Click **OK**.
 - h. Expand the **Certificates (Local Computer)** group.
 - i. Expand the **Personal** group.
 - j. Expand the **Certificates** group.
 - k. Right-click **SolarWinds APM Engine**, point to **All Tasks** on the shortcut menu, and then click **Export**.

- l. Click **Next** in the Certificate Export Wizard.
 - m. Select **Yes**, export the private key, click **Next**, and then click **Next** again.
 - n. Type and confirm a password for this private key, and then click **Next**.
 - o. Specify the file name to which you want to save the certificate, click **Next**, and then click **Finish**—the certificate is saved with a `.pfx` file name extension.
2. Copy the `.pfx` certificate file to the new server.
 3. Import the certificate to the new server.
 - a. On the Start Menu, click **Run**, type `MMC`, and then click **OK**.
 - b. On the **File** menu, click **Add/Remove Snapin**, and then click **Add**.
 - c. Select **Certificates**, and then click **Add**.
 - d. Select **Computer account**, and then click **Next**.
 - e. Select **Local computer**, and then click **Finish**.
 - f. Click **Close**.
 - g. Click **OK**.
 - h. Expand the **Certificates (Local Computer)** group.
 - i. Expand the **Personal** group.
 - j. Expand the **Certificates** group.
 - k. *If there is a SolarWinds APM Engine item in the list*, right-click **SolarWinds APM Engine** and select **Delete** from the shortcut menu.
 - l. Right-click the **Certificates—Personal—Certificates** node, point to **All Tasks** in the shortcut menu, and then click **Import**.
 - m. Click **Next** in the Certificate Import Wizard.
 - n. Specify the `.pfx` certificate file you copied to the server and then click **Next**.
 - o. Enter the password for the private key, check **Mark this key as exportable**, and then click **Next**.
 - p. Select **Place all certificates in the following store**, and then select **Personal** as the Certificate Store.
 - q. Click **Next** and then click **Finish**.

Moving the Orion NCM Integration Component

Orion users that have the Orion NCM integration component installed will need to follow the steps in this section. The Orion NCM integration component encrypts your sensitive data with a security certificate stored on the original Orion NPM server. To grant the additional web console access to this encrypted data:

Export the Orion NCM Integration Engine certificate from the Orion NPM server.

1. On the Start Menu, click **Run**, type `MMC`, and then click **OK**.
2. On the **File** menu, click **Add/Remove Snapin**, and then click **Add**.
3. Select **Certificates**, and then click **Add**.
4. Select **Computer account**, and then click **Next**.

5. Select **Local computer**, and then click **Finish**.
6. Click **Close**.
7. Click **OK**.
8. Expand the **Certificates (Local Computer)** group.
9. Expand the **Personal** group.
10. Expand the **Certificates** group.
11. Right-click **Orion NCM Integration Engine**, point to **All Tasks** on the shortcut menu, and then click **Export**.
12. Click **Next** in the Certificate Export Wizard.
13. Select **Yes, export the private key**, click **Next**, and then click **Next** again.
14. Type and confirm a password for this private key, and then click **Next**.
15. Specify the file name to which you want to save the certificate, click **Next**, and then click **Finish**—the certificate is saved with a `.pfx` file name extension.

Import the certificate file to the Orion NPM additional web console, as shown in the following procedure.

To import an Orion NCM certificate file to an additional web console:

1. Copy the `.pfx` certificate file to the computer running the Orion NPM additional web console.
2. On the Start Menu, click **Run**, type `MMC`, and then click **OK**.
3. On the File menu, click **Add/Remove Snapin**, and then click **Add**.
4. Select **Certificates**, and then click **Add**.
5. Select **Computer account**, and then click **Next**.
6. Select **Local computer**, and then click **Finish**.
7. Click **Close**.
8. Click **OK**.
9. Expand **Certificates (Local Computer) > Personal > Certificates**.
10. *If there is an Orion NCM Integration Engine item in the list*, right-click **Orion NCM Integration Engine**, and then click **Delete** on the shortcut menu.
11. Right-click the **Certificates > Personal > Certificates** node, point to **All Tasks** in the shortcut menu, and then click **Import**.
12. Click **Next** in the Certificate Import Wizard.
13. Specify the `.pfx` certificate file you copied to the server, and then click **Next**.
14. Enter the **password** for the private key, check **Mark this key as exportable**, and then click **Next**.
15. Select **Place all certificates in the following store**, and then select **Personal** as the **Certificate Store**.
16. Click **Next**, and then click **Finish**.

Grant the ASPNET and NETWORK SERVICE objects read, write, and execute permissions to the imported certificate file, as indicated in the following procedure.

Granting required permissions to the ASPNET and NETWORK SERVICE objects:

1. In Windows Explorer, navigate to the folder `C:\Documents and Settings\All Users\Application Data\Microsoft\Crypto\RSA\MachineKeys`.
2. Click **View** on the Windows Explorer menu, and then select **Details**.
3. Right-click the file with the most recent Date Modified time, and then select **Properties**.
4. Click the **Security** tab.
5. Click **Add**.
6. Type `ASPNET` in the **Enter the object names to select** field, and then click **OK**.
7. Select **ASPN.NET Machine Account**.
8. Check **Allow** for Read & Execute, Read, and Write.
9. Click **Add**.
10. Type `NETWORK SERVICE` in the **Enter the object names to select** field, and then click **OK**.
11. Select **NETWORK SERVICE**.
12. Check **Allow** for Read & Execute, Read, and Write.
13. Click **OK**.
14. Next **Run the Configuration Wizard**.

Migrating Licenses with License Manager

The following procedures deactivate currently installed licenses that can then be transferred to a new installation.

Installing License Manager

You will need to install License Manager on the computer from which you are migrating currently licensed products.

Note: You must install License Manager on a computer with the correct time. If the time on the computer is even slightly off, in either direction, from Greenwich Mean Time (GMT), you cannot reset licenses without contacting SolarWinds Customer Service. Time zone settings neither affect nor cause this issue.

To install License Manager:

1. Click **Start > All Programs > SolarWinds > SolarWinds License Manager Setup**.
2. Click **I Accept** to accept the SolarWinds EULA.
3. *If you are prompted to install the SolarWinds License Manager application*, click **Install**.

Using License Manager

You must run License Manager on the computer where the currently licensed SolarWinds product is installed before you can migrate licenses to a new installation. The following procedure deactivates currently installed licenses that can then be transferred to a new installation.

To deactivate currently installed licenses:

1. Click **Start > All Programs > SolarWinds > SolarWinds License Manager**.
2. Check the products you want to deactivate on this computer.
3. Click **Deactivate**.
4. Specify your **SolarWinds Customer ID** and **password** when prompted, and then click **Deactivate**.

Deactivated licenses are now available to activate on a new computer. When you have successfully deactivated your products, log on to the computer on which you want to install your products, and then begin installation. When asked to specify your licenses, provide the appropriate information. The license you deactivated earlier is then assigned to the new installation.

Uninstalling Orion NPM from the Old Server

Once you have completed the previous steps, check System Manager to ensure that all your nodes were transferred successfully. Verify that your alerts, reports, and maps were copied properly, and then check the Orion NPM website to ensure that everything was successfully migrated. As a last step, fully uninstall Orion NPM from the old server, as shown in the following procedure.

To uninstall Orion NPM from the old server:

1. *If you are uninstalling Orion NPM version 8.5 or later*, on the old Orion NPM server, click **Start > Control Panel > Add or Remove Programs**, click **SolarWinds Orion Network Performance Monitor**, and then click **Remove**.
2. *If you are uninstalling Orion NPM version 8.1 or earlier*, click **Start > SolarWinds Orion Network Performance Monitor > Uninstall > Uninstall Orion Network Performance Monitor**.
3. Complete the uninstall wizard, being sure to remove all shared components when prompted.

Moving Older Map Maker Maps

For versions of Orion prior to 9.5, you will need to follow the steps in this section. Newer versions of Orion NPM include the Network Atlas maps, which are stored in the database so there's nothing to move.

The best way to move your custom Map Maker maps from the old server to the new is to use the Publish to Remote Web Server utility within Map Maker. Using this utility ensures that all your custom maps, icons, and backgrounds transfer correctly.

Note: Maps and map objects created or edited in Orion Network Atlas are stored in the Orion database. If the database is successfully migrated, there is no need to migrate any additional Network Atlas map files. For more information about migrating your Orion database, see "Moving Your Orion NPM Database" at <http://www.solarwinds.com/support/orion/orionDoc.aspx>.

To copy your custom maps to the new Orion NPM server:

1. Click **Start > All Programs > SolarWinds Orion > Map Maker**.
2. Click **File > Publish to Remote Web Server**.

3. Type either the IP address or the name of the new Orion NPM server in the **Remote Web Server** field.
4. *If you did not install Orion NPM in the default path on the new server*, either click the ellipsis or click **Select the Installation Directory**, and then browse to the \Orion folder on the new server.
5. *If you want to specify which maps you wish to publish to the remote web server*, uncheck **Complete Synchronization**.

Note: This feature helps when multiple users are creating and publishing maps at different intervals.

6. Click **OK** to publish your maps to the new server.
7. Click **OK** when the transfer has completed.
8. Close Map Maker.