



OMi Management Pack for Microsoft SharePoint Server

Software Version: 1.01
For Operations Manager i for Linux and Windows® operating systems

Installation Guide

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Chapter 1: Introduction

The OMi Management Pack for Microsoft SharePoint Server (OMi MP for Microsoft SharePoint Server) works with Operations Manager i (OMi) and enables you to monitor components of your Microsoft SharePoint Server environment. The OMi MP for Microsoft SharePoint Server includes the following components for monitoring performance and availability of SharePoint Servers in your environment:

- Microsoft SharePoint Aspects
- Configuration Item (CI) and Configuration Item Types (CITs)
- Policy Template Groups
- Run-time Service Model (RTSM) Views
- Parameters
- Event Type Indicators (ETIs)
- Health Indicators (HIs)
- Graph Templates
- Tools

Note: For more information about the components, see the *OMi Management Pack for Microsoft SharePoint Server Online Help* or *User Guide*.

Abbreviations Used in this Manual

Abbreviations	Expansion
BSM	Business Service Management
OMi	Operations Manager i
RTSM	Run-time Service Model
BSM DPS	BSM Data Processing Server
BSM GWS	BSM Gateway Server
OMi MP	HPE OMi Management Pack
OMi MP for Microsoft SharePoint Server	HPE OMi Management Pack for Microsoft SharePoint Server

Related Documentation

For more information about BSM and Monitoring Automation, see documentation for *Business Service Management*.

For more information about OMi, see documentation for *Operations Manager i*.

For more information about OMi MP for Microsoft SharePoint Server see the following documents:

- OMi MP for Microsoft SharePoint Server - *Release Notes*
- OMi MP for Microsoft SharePoint Server - *User Guide*
- OMi MP for Microsoft SharePoint Server - *Reference Guide*

Licensing

The OMi MP licenses are available in a pack of 25 license units. Each license can be used per OS instance, irrespective of the application type. For example, the license pack can contain 5 licenses of OMi MP for Microsoft SQL Server, 10 licenses of OMi MP for Oracle Database with any other combination of supported applications.

There are three types of licenses:

- Evaluation: A license with a fixed trial period of up to 60 days. This type of license is available only until a Time Based or Permanent license is purchased. Once purchased, the trial period immediately terminates.
- Term: A license that has a time-based expiration date.
- Perpetual: A license that does not expire.

To procure the license for the Entitlement Order Number (EON), go to <http://enterpriselicense.hpe.com> and log on using your HPE Passport credentials to redeem the license.

For information about applying the license, see "[Applying the License](#)".

Chapter 2: Installing or Upgrading OMi MP for Microsoft SharePoint Server

This section provides information about installing OMi MP for Microsoft SharePoint Server 1.01 on BSM 9.2x or OMi 10.x (Linux or Windows) servers.

Installation Package

The following section provides information about the installation package for OMi MP for Microsoft SharePoint Server 1.01:

Note: You must install OMi MP for Microsoft SharePoint Server 1.00 before installing OMi MP for Microsoft SharePoint Server 1.01.

The OMi MP for Microsoft SharePoint Server 1.00 is available in the electronic media (e-media). The e-media is available for the English environment. In a distributed environment, it must be installed on all BSM 9.2x or OMi 10.x - Data Processing Servers (DPS) and BSM 9.2x or OMi 10.x - Gateway Servers (GWS).

The OMi MP for Microsoft SharePoint Server 1.01 is available at [Unified Marketplace](#). The e-media is available only for the English environment.

The package contains the OMi MP for Microsoft SharePoint Server 1.01 update and the product documentation. In a distributed environment, it must be installed on all BSM or OMi Data Processing Servers (DPS) and BSM or OMi Gateway Servers (GWS).

The following table provides information about the documentation available in the [Unified Marketplace](#):

Document	Location	Purpose
Online Help	Available in the BSM 9.2x console Help menu. From the BSM console, go to Help > BSM Help > Application Administration > Operations Management > OMi Management Pack for Microsoft SharePoint Server . Available in the OMi 10.x console ?	To provide information about the following: <ul style="list-style-type: none">• Using Microsoft SharePoint Aspects and Policy Templates• Using Indicators - Health Indicators and Event Type Indicators

Document	Location	Purpose
	<p>menu.</p> <p>From the OMi console, go to ? General Help > Administration Guide > Management Packs > Management Pack Documentation > OMi Management Pack for Microsoft SharePoint Server</p>	
User Guide	Unified Marketplace	
Installation Guide		To provide information about installing OMi MP for Microsoft SharePoint Server 1.0 and 1.01.
Release Notes		<p>To provide information about the following:</p> <ul style="list-style-type: none"> • New features in this release • Installation Notes
Reference Guide		To provide complete information policies and corresponding events and instructions.

Installation Prerequisites

The following section lists the hardware and software prerequisites for installing OMi MP for Microsoft SharePoint Server 1.01 on BSM 9.2x (Linux and Windows) or OMi 10.x (Linux and Windows) servers.

Software Requirements

Before installing OMi MP for Microsoft SharePoint Server 1.01, the following components must be installed and configured on the BSM 9.2x or OMi 10.x (Linux and Windows) servers.

Server

Component	Version
BSM	9.23 or later*
Operations Manager i	9.23 or later*
Monitoring Automation	9.23 or later*
OMi Management Pack for Infrastructure	1.10 or later*
OMi Management Pack for Microsoft SharePoint Server	1.0

For more information about installing the OMi Management Pack for Microsoft SharePoint Server 1.00, see the section [Installing OMi Management Pack for Microsoft SharePoint Server 1.0](#).

Note: For large scale environments, it is recommended to use BSM 9.24 or higher.

Managed Node

Component	Version
Operations Agent	11.12 or higher*

Note: * For more information about compatible software applications, see the Support Matrix at <https://softwaresupport.hpe.com/km/KM323488> (HPE Passport sign in required).

Installation Checklist

Ensure that the installation tasks described in the following table are completed in the specified order:

If you have already installed OMi 10.x, skip to [Task 5](#).

Serial	Task	Reference
1	Check the installation prerequisites for BSM	See the <i>General Prerequisites</i> section in the <i>BSM Installation Guide</i> .
2	Install BSM version 9.23 or higher	See the following chapters in the <i>BSM Installation Guide</i> : <ul style="list-style-type: none"> • <i>Install BSM 9.20</i> • <i>Install the Latest BSM 9.2x Minor Minor Release and Patch</i>

Serial	Task	Reference
3	Install Monitoring Automation version 9.23 or higher	See the <i>Installation Prerequisites</i> chapter in the <i>Operations Manager i Monitoring Automation Installation Guide</i> : <ul style="list-style-type: none"> • <i>Installing and Configuring Monitoring Automation on BSM servers</i>
4	Verify the Monitoring Automation installation	See the <i>Using Monitoring Automation</i> chapter in the <i>Monitoring Automation for Operations Manager i Installation Guide</i> .
5	Install OMi MP for Microsoft SharePoint Server 1.00	See the " Installing OMi MP for Microsoft SharePoint Server 1.00 " section.
6	Apply the License	See the " Applying the License " section.

Managed Node

Task	Reference
Install Operations Agent 11.12 or higher	See the <i>Installing the Operations Agent 11.12</i> chapter in the <i>Operations Agent and Operations Smart Plug-ins for Infrastructure Installation Guide</i> .

Installing OMi MP for Microsoft SharePoint Server 1.00 on BSM 9.2x or OMi 10.x

You can use the e-media to install the OMi MP for Microsoft SharePoint Server on BSM 9.2x or OMi 10.x (Linux or Windows) server. The following section provides information about detailed installation instructions:

Note: If the OMi MP for Microsoft SharePoint Server 1.00 is already installed, see [Installing the OMi MP for Microsoft SharePoint version 1.01 on BSM or OMi](#).

Note: For BSM 9.2x, ensure that Monitoring Automation is running before proceeding with the installation. To check the status, log on to BSM console navigate through **Admin > Platform > Setup and Maintenance > Server Deployment**, and check if Monitoring Automation is enabled.

On a Linux BSM 9.2x or OMi 10.x Server

Note: In a BSM 9.2x or OMi 10.x distributed environment, OMi MP for Microsoft SharePoint Server must be installed on all BSM 9.2x or OMi 10.x DPS and GWS servers.

Follow these steps:

1. Log on as root user.

Note: If OMi is configured as a non-root user, log on as OMi non-root.

2. Set the umask by typing the command `umask 022`.
3. Copy and extract the `OMi_MP_for_MSPS_<version>.zip` file to a *Temp* folder on BSM 9.2x or OMi 10.x servers.

4. Run the following command:

```
<Temp_PATH>/mpinstall.sh -i
```

5. To accept the End User License Agreement (EULA), type **Yes** or **Y** and to decline the license agreement, type **No** or **N**.

After the installation is completed, a message appears stating:

```
OMi Management Pack Installation Finished.
```

On a Windows BSM 9.2x or OMi 10.x Server

Note: In a BSM 9.2x or OMi 10.x distributed environment, OMi MP for Microsoft SharePoint Server must be installed on all BSM 9.2x or OMi 10.x DPS and GWS servers.

Follow these steps:

1. Copy and extract the `OMi_MP_for_MSPS_<version>.zip` file to a *Temp* folder on BSM 9.2x or OMi 10.x servers.
2. Open the command prompt, change the directory to the *Temp* directory, and run the following command:

```
cscript /nologo mpinstall.vbs -i
```

3. To accept the End User License Agreement (EULA), type **Yes** or **Y** and to decline the license agreement, type **No** or **N**.

After the installation is completed, a message appears stating:

```
OMi Management Pack Installation Finished.
```

Installing OMi MP for Microsoft SharePoint Server version 1.01 on BSM or OMi

You can use the e-media to install the OMi MP for Microsoft SharePoint Server on BSM 9.2x or OMi 10.x (Linux or Windows) server. The following section provides information about detailed installation instructions:

Downloading the OMi MP for Microsoft SharePoint Server 1.01

To download the OMi MP for Microsoft SharePoint Server 1.01, follow these steps:

1. Download the **OMi MP for Microsoft SharePoint Server 1.01** installation package from:
[Unified Marketplace](#)
2. Extract it to a *Temp* folder on your BSM 9.2x or OMi 10.x server.

Installing the OMi MP for Microsoft SharePoint Server 1.01

Note: In a BSM 9.2x or OMi 10.x distributed environment, OMi MP for Microsoft SharePoint Server must be installed on all BSM 9.2x or OMi 10.x DPS and GWS servers.

For Linux:

Follow these steps:

1. Log on as root user.

Note: If OMi is configured as a non-root user, log on as OMi non-root.

2. Set the umask by typing the command `umask 022`.
3. Copy and extract the **OMi MP for Microsoft SharePoint Server 1.01** file to a *Temp* folder on BSM 9.2x or OMi 10.x servers.
4. Run the following command:

```
<Temp_PATH>/mpinstall.sh -i
```

5. To accept the End User License Agreement (EULA), type **Yes** or **Y** and to decline the license agreement, type **No** or **N**.

After the installation is completed, a message appears stating:

OMi Management Pack Installation Finished.

For Windows:

Note: In a BSM 9.2x or OMi 10.x distributed environment, OMi MP for Microsoft SharePoint Server must be installed on all BSM 9.2x or OMi 10.x DPS and GWS servers.

Follow these steps:

1. Copy and extract the **OMi MP for Microsoft SharePoint Server 1.01** file to a *Temp* folder on BSM 9.2x or OMi 10.x servers.
2. Open the command prompt, change the directory to the *Temp* directory, and run the following command:

```
cscript /nologo mpinstall.vbs -i
```

3. To accept the End User License Agreement (EULA), type **Yes** or **Y** and to decline the license agreement, type **No** or **N**.

After the installation is completed, a message appears stating: OMi Management Pack Installation Finished.

Verifying the OMi MP for Microsoft SharePoint Server Installation or Upgrade

This section provides information about verifying the installation of OMi MP for Microsoft SharePoint Server on BSM 9.2x or OMi 10.x (Linux and Windows) servers.

You can perform any one of the following checks to verify the OMi MP for Microsoft SharePoint Server 1.01 installation:

- Check the log files for any errors on GWS (BSM 9.2x or OMi 10.x), DPS (BSM 9.2x or OMi 10.x), and typical servers (BSM 9.2x or OMi 10.x) at the following locations:

Linux: /opt/HP/BSM/log/mpinstall.log

Windows: %TOPAZ_HOME%\log\mpinstall.log

Note: The OMi logs are available on both (BSM 9.2x or OMi 10.x) GWS and (BSM 9.2x or OMi 10.x) DPS at the following location:

On BSM < or = 9.25:

Linux: /opt/HP/BSM/log/EJBContainer/opr-configserver.log

Windows: %TOPAZ_HOME%\log\EJBContainer\opr-configserver.log

On BSM > or = 9.26 and OMi 10.x:

Linux: /opt/HP/BSM/log/jboss/opr-webapp.log

Windows: %TOPAZ_HOME%\log\jboss\opr-webapp.log

- Check the following location on BSM 9.2x or OMi 10.x console:
 - On BSM 9.2x, click **Admin > Operations Management > Setup > Content Packs**.
 - On OMi 10.x, click **Administration > Setup and Maintenance > Content Packs**.

The OMi MP for Microsoft SharePoint Server 1.0 and 1.01 must appear in the Content Pack Definitions pane.

- To check the OMi MPs installed on the BSM 9.2x or OMi 10.x server, run the following command on BSM 9.2x or OMi 10.x GWS:

Linux:

```
/opt/HP/BSM/bin/ContentManager.sh -l -username <BSM username> -password <BSM  
pwd>
```

Windows:

```
%TOPAZ_HOME%\bin\ContentManager.bat -l -username <BSM username> -password <BSM  
pwd>
```

The above command lists all the MPs installed on the BSM or OMi servers.

- The version number of OMi MP for Microsoft SharePoint Server is 1.01 and the version number of Aspects and Policy Templates is 1.100.

Applying the License

This section provides information about updating and activating the license.

Note: For more information about procuring the license, see the "[Licensing](#)" section.

To update your deployment with a new license and to activate the license, follow these steps:

1. Navigate to the License Management pane:

On BSM 9.2x, click **Admin > Platform > Setup and Maintenance > License Management**.

On OMi 10.x, click **Administration > Setup and Maintenance > License Management**.

The License Management provides details about the name, license type, days left to expiry of license, expiration date, capacity, and capacity details.

2. Click  to open the Add License dialog box where you can search for the relevant .dat file.

Note: You can download .dat file from <http://enterpriselicence.hpe.com>.

Note: There will be a delay in license activation after the installation. If the license does not activate automatically, you need to perform step 3.

3. (Optional). To activate the license on BSM 9.2x, click the **Server Deployment** link at the bottom

of the License Management window.

4. Select the check box corresponding to respective **Application** and click **Save**.

Chapter 3: Getting Started


The following section provides information about the tasks required to monitor SharePoint Servers using OMi MP for Microsoft SharePoint Server.

Task 1: Adding Nodes to BSM 9.2x or OMi 10.x Console

Note: If the Microsoft SharePoint Server that you want to monitor is already being monitored by Smart Plug-in (SPI) for Microsoft Enterprise Servers, then remove the SPI artifacts and data sources from the managed node hosting the Microsoft SharePoint Servers before proceeding.

Note: If the Node already exists in Run-time Service Model (RTSM), you can skip this step and proceed to Task 2.

Before you begin monitoring, you need to add the nodes by following these steps:

1. Open the Monitored Nodes pane:
On BSM 9.2x, click **Admin > Operations Management > Setup > Monitored Nodes**.
On OMi 10.x, click **Administration > Setup and Maintenance > Monitored Nodes**.
2. In the **Node Views** pane, click **Predefined Node Filters > Monitored Nodes**, and then click , and then click **Computer > Windows**. The Create New Monitored Nodes dialog box opens.
3. Specify the Primary DNS Name, IP Address, Operating System and Processor Architecture of the node and then click **OK**.

The newly created node is saved as a CI instance in RTSM.

Note: The node with Operations Agent must be connected to the OMi Server and certificate must be granted.

User Privileges

To discover instances of Microsoft SharePoint Servers, provide user the following privileges:

- SharePoint Administrator
- Local Administrator

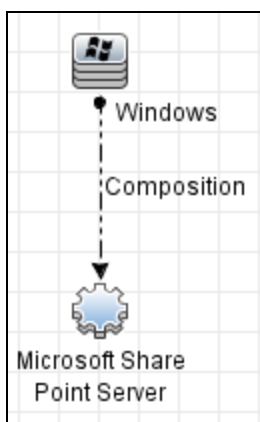
Task 2: Deploying the SharePoint Discovery and Config Aspect

Note: If Microsoft SharePoint Server CIs are already discovered, you can skip this step and proceed to [Task 5](#).

To discover all the Microsoft SharePoint Server CIs on the added managed nodes, you must deploy both the SharePoint Discovery Aspect and SharePoint Extended Discovery Aspect respectively to a Computer CI.

The Aspects that must be deployed and the corresponding CIs that are discovered are as follows:

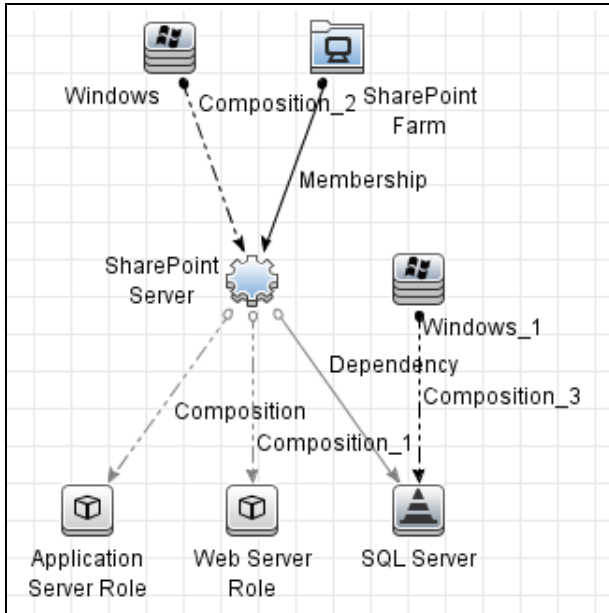
1. Deploy the SharePoint Discovery Aspect where the following CIs of the following CI type (CIT) is discovered:
 - Microsoft SharePoint Server



2. After deploying the SharePoint Extended Discovery Aspect, the remaining CIs of the following

(CITs) are discovered:

- SharePoint Farm
- Application Server Role
- Web Server Role
- SQL Server



To deploy the SharePoint Discovery and SharePoint Extended Discovery Aspects, follow these steps:

1. Open the Management Templates & Aspects pane:

On BSM 9.2x, click **Admin > Operations Management > Monitoring > Management Templates & Aspects**.

On OMi 10.x, click **Administration > Monitoring > Management Templates & Aspects**.

2. In the Configuration Folders pane:

Click **Configuration Folders > Microsoft Application Management > Microsoft SharePoint Server > Aspects**.

3. Follow one of the methods to assign and deploy the Aspect. In the Management Templates & Aspects pane:

- Select the **SharePoint Discovery** or **SharePoint Extended Discovery** Aspect, and then click



- o Right-click the **SharePoint Discovery** or **SharePoint Extended Discovery** Aspect, and then click **Assign and Deploy Item**.

The Assign and Deploy Wizard appears.


4. In the **Configuration Item** tab, select the **Windows** managed node CI and then click **Next**.

5. In the **Required Parameters** tab, follow the steps:

- o If you are deploying **SharePoint Discovery** Aspect, click **Next**.

Note: The SharePoint Discovery Aspects do not have mandatory parameters. You will get a notification stating the following message: There are no parameters that require editing for this Assignment.


- o If you are deploying **SharePoint Extended Discovery** Aspect, follow these steps:

- i. Select the **USERNAME** parameter in the list, and then click . The USERNAME dialog box opens.
- ii. Specify the value and then click **OK**.

For domain users, specify the username in the `<domain>\\<username>` format.

For non-domain users, specify the username in the `<username>` format.

Note: Make sure the user has SharePoint administrator and local administrator privileges. Additionally, provide user the privileges to access the SharePoint databases.

- iii. Select the **PASSWORD** parameter in the list, and then click . The PASSWORD dialog box opens.
- iv. Click **Value** and type a value in the **Password** field.
- v. In the **Verify Password** field and type the same password and then click **OK**.
- vi. Click **Next** to go to **All Parameters** tab on BSM 9.2x or **Parameter Summary** on OMi 10.x.

6. *(Optional)*. In the **All Parameters** tab on BSM 9.2x or **Parameter Summary** tab on OMi 10.x, click **Next**.

Note: The SharePoint Discovery and SharePoint Extended Discovery Aspects do not have any parameters. You will get a notification stating the following message: There is no parameter available for this assignment.

7. *(Optional)*. If you do not want to enable the assignment immediately, follow the step:

On BSM 9.2x, clear the **Enable Assigned Objects** check box.

On OMi 10.x, clear the **Enable Assignment(s)** check box.

You can then enable the assignment later using the Assignments & Tuning pane.

8. Click **Finish**.

Note: After the SharePoint Discovery and SharePoint Extended Discovery Aspects are deployed, the following message appears: *Assignment and deployment jobs created*. To check the status of the deployment job, go to:

On BSM 9.2x, click **Admin > Operations Management > Monitoring > Deployment Jobs**.

On OMi 10.x, click **Administration > Monitoring > Deployment Jobs**.

Task 3: Verifying Discovery

After you deploy the SharePoint Discovery and SharePoint Extended Discovery Aspects, you must verify if the CIs are populated in the View Explorer.

To view the CIs discovered, follow these steps:

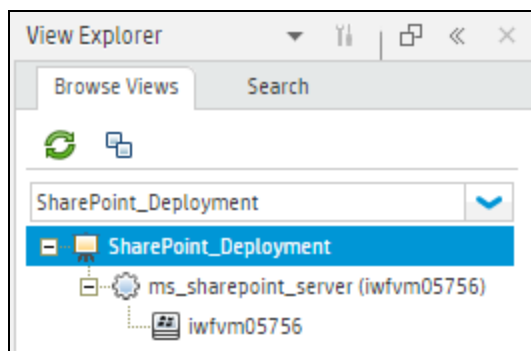
1. Open the Event Perspective pane:

On BSM 9.2x, click **Applications > Operations Manager > Event Perspective**.

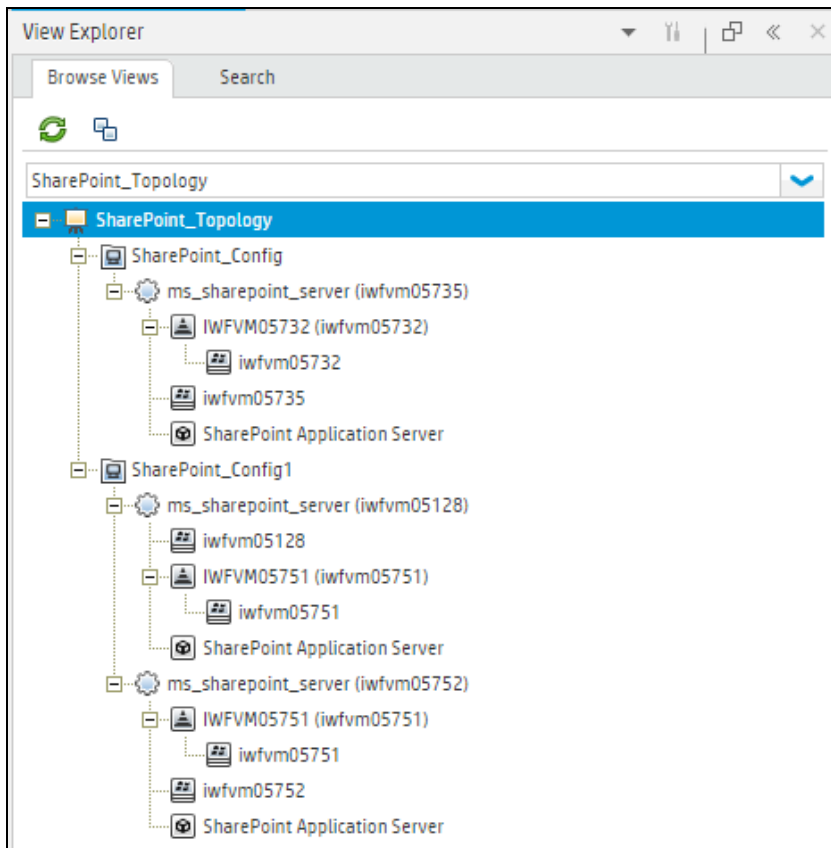
On OMi 10.x, click **Workspaces > Operations Console > Event Perspective**.

2. In the **Browse Views** tab, follow the steps:

For verifying SharePoint Discovery Aspect deployment, select the **SharePoint_Deployment** View.



For verifying SharePoint Extended Discovery Aspect deployment, select the **SharePoint_Topology View**.



Task 4: Deploying the Microsoft SharePoint Aspects

Following section provides detailed procedures for deploying the Microsoft SharePoint Aspects.

Task 4a: Deploying the other SharePoint Aspects

The OMi MP for Microsoft SharePoint Server contain other SharePoint Aspects apart from the SharePoint Discovery and SharePoint Extended Discovery Aspects. For more information about the SharePoint Server Aspects, See the *HPE OMi Management Pack for Microsoft SharePoint Server 1.01 User Guide*.

Management Pack Data Collection Process

The frequency (polling interval) at which each policy must be monitored is predefined with a default value in a specific frequency parameter. Frequency parameter is an expert parameter that is defined for each of the metrics regardless of whether they are for generating events or logging data.

Following are the four predefined frequency parameters:

Scheduler Frequency	Default value
Very High	5 mins
High	15 mins
Medium	1 hour
Low	24 hours

After Aspects are deployed, collector is triggered based on the parameter value in a specific policy. You can modify the default value of the parameter at the following levels:

- During deployment of the Aspects using the Management Templates & Aspects pane.
- After deployment using the Assignments & Tuning pane.

For more information about how to modify the parameter values, see the section *Editing Parameters* in the *OMi Management Pack for Microsoft SharePoint Server 1.01 User Guide*.

To deploy the other SharePoint Aspects, follow these steps:

1. Open the Management Templates & Aspects pane:


On BSM 9.2x, click **Admin > Operations Management > Monitoring > Management Templates & Aspects**.

On OMi 10.x, click **Administration > Monitoring > Management Templates & Aspects**.

2. In the Configuration Folders pane:

Click **Configuration Folders > Microsoft Application Management > Microsoft SharePoint Server > Aspects**.

3. Follow one of the methods to assign and deploy the Aspect. In the Management Templates & Aspects pane:

- Select the required Aspect, and then click .
- Right-click the required Aspect, and then click **Assign and Deploy Item**.

The Assign and Deploy Wizard appears.

4. In the **Configuration Item** tab, select the required managed node CI and then click **Next**.
5. *(Optional)*. In the **Required Parameters** tab, click **Next**.
6. *(Optional)*. In the **All Parameters** tab on BSM 9.2x or **Parameter Summary** on OMi 10.x, click **Next**.
7. *(Optional)*. If you do not want to enable the assignment immediately, follow the step:

On BSM 9.2x, clear the **Enable Assigned Objects** check box.

On OMi 10.x, clear the **Enable Assignment(s)** check box.

You can then enable the assignment later using the Assignments & Tuning pane.

8. Click **Finish**.

Note: After the Aspect is deployed, the following message appears: *Assignment and deployment jobs created*. To check the status of the deployment job, go to the following location:

On BSM 9.2x, **Admin > Operations Management > Monitoring > Deployment Jobs**.

On OMi 10.x, **Administration > Monitoring > Deployment Jobs**.

Task 5: Updating the Aspects to a Newer Version


If you have already deployed OMi MP for Microsoft SharePoint Server 1.00 Aspects to the managed nodes, use the latest version of Aspects on those nodes.

Perform the following steps for each Aspect assignment on each of the managed nodes:


For BSM 9.2x:

1. To open the Management Templates & Aspects pane, click **Admin > Operations Management > Monitoring > Management Templates & Aspects**.
2. Select the SharePoint Aspects 1.100 that have been deployed to the nodes.
3. Redeploy with parameterization to each of the SharePoint Server CIs.

For OMi 10.x:

1. To open the Assignments & Tuning pane, click **Administration > Monitoring > Assignments & Tuning**.
2. In the Browse Views pane, select the **SharePoint_Deployment** view and select each SharePoint Server CI where version update is required.
3. Click  **Show Assignments That Require an Update**.

All the Management Templates and Aspects that requires an update are listed.

4. Select each of the Management Templates and Aspects and click  **Update Assigned Item**.

The Update Assigned Item dialog box appears.

5. In the **Update Options** tab, follow these steps:
 - a. Select the latest version from the **Update to Version** drop down list.
 - b. Select the parameter value that you require for the assignment:
 - If you select **Use parameter values from existing assignments**, only the new mandatory parameters that do not have a default value are listed.
 - If you select **Use default parameter values from version selected above**, all mandatory parameters from the selected Aspect version that do not have a default value are displayed. These parameters must be edited before proceeding to the next step of the wizard.
 - c. Click **Next**.
6. In the **Required Parameters**, edit and provide values for each of the mandatory parameters. **SharePoint Username** and **SharePoint Password** are the mandatory parameters.
7. In the **Parameter Summary** tab, edit and provide the values for the remaining parameters.
8. Click **Finish** to save the changes and close the wizard. The assigned item is updated to the specified Management Template or Aspect version.


Checking Topology Synchronization Settings

Note: It is recommended to check the Topology Synchronization settings if a Node or a CI is monitored by HP Operations Manager.

If you are using Smart Plug-in for Microsoft Enterprise Servers with HP Operations Manager, perform following steps to forward topology data from the HPOM Server to OMi Server.

For more information about the Topology Synchronization, see the latest version of the *HPE OMi Administration Guide*.

To check the Topology Synchronization settings, follow these steps:

1. Open the Infrastructure Settings pane:
 - On BSM 9.2x, click **Admin > Platform > Setup and Maintenance > Infrastructure Settings**.
 - On OMi 10.x, click **Administration > Setup and Maintenance > Infrastructure Settings**.
2. In the Infrastructure Settings Manager, select **Applications > Operations Management**.
3. To verify the availability of toposync package to be synchronized, go to **Operations Management – HPOM Topology Synchronization Settings** and check if **HPOprSps** is available.
4. If the package is not available, add the toposync package by following these steps:
 - a. In the **Packages for Topology Sync**, click .
 - b. In **Value**, add **HPOprSps** and click **Save**.

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Feedback on Installation Guide (OMi Management Pack for Microsoft SharePoint Server 1.01)

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