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About This Guide

This installation guide is written to provide network administrators the conceptual and procedural information for installing and configuring Micro Focus Storage Manager 5.0 for eDirectory.

- Chapter 1, “Prerequisites,” on page 7
- Chapter 2, “Licensing the Product,” on page 9
- Chapter 3, “Upgrading from Storage Manager 3.1.1 to 5.0,” on page 13
- Chapter 4, “Installing Storage Manager 5.0 for eDirectory,” on page 15
- Appendix B, “Documentation Updates,” on page 35

Audience

This guide is intended for network administrators who manage user and collaborative network storage resources.

Feedback

We want to hear your comments and suggestions about this guide and the other documentation included with this product. Please use the User Comment feature at the bottom of each page of the online documentation, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

For the most recent version of the Micro Focus Storage Manager 5.0 for eDirectory Installation Guide, visit the Novell Storage Manager Web site (http://www.novell.com/documentation/storagemanager5/index.html).

Additional Documentation

For additional Micro Focus Storage Manager documentation, see the following guide at the Novell Storage Manager Documentation Web site (http://www.novell.com/documentation/storagemanager5):

- Micro Focus Storage Manager 5.0 for eDirectory Administration Guide
1 Prerequisites

This section provides procedures that you must do before installing the Micro Focus Storage Manager 5.0 for eDirectory components.

- "Preparing the Files for Installation" on page 7
- "Component Installation Overview" on page 7

Preparing the Files for Installation

Micro Focus Storage Manager 5.0 is packaged as a single SM-eDir_5_0_0.iso file. Before you can install the Micro Focus Storage Manager 5.0 for eDirectory components, you must mount the SM-eDir_5_0_0.iso on the server where you are installing one of the Storage Manager components.

Component Installation Overview

You must install the following Storage Manager 5.0 components:

- Engine
- Event Monitor
- Agents
- SMAdmin

Installation Files

The installation files for the Engine, Event Monitor, and Linux Agents are RPMs.

- SLES10\x86_64 contains the Engine, Event Monitor and Agent installation RPMs for 64-bit processor servers running SUSE Linux Enterprise Server 10.
- SLES11\x86_64 contains the Engine, Event Monitor, and Agent installation RPMs for 64-bit processor servers running SUSE Linux Enterprise Server 11.
- Windows contains the SMAdmin utility that is installed on a Windows server or workstation.
Licensing the Product

- “Licensing Overview” on page 9
- “Obtaining a License File” on page 10
- "Updating an Evaluation License File" on page 11

Licensing Overview

Micro Focus Storage Manager has two license types:

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<tr>
<td>License Type</td>
</tr>
<tr>
<td>Evaluation</td>
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<td>Production</td>
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The following table includes a summary of the features enabled in each license type:

<table>
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<tr>
<th>Table 2-2 Feature Summary for License Types</th>
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</table>
Obtaining a License File

Micro Focus Storage Manager requires a production license file or evaluation license file that you obtain from Micro Focus.

1. In a web browser, go to www.storagemanagersupport.com.
2. On the top banner of the web page, click License.
   A new web page appears with options for obtaining the license in either eDirectory or Active Directory managed network environments.

3. Complete the fields and click Submit.
   An e-mail from Storage Manager Support is automatically sent to you with an embedded link for accessing the license.
4 In the email, click Download License File.
   A new Access web page is opened.
5 From the Access page, select the listed license file and click the arrow icon to download the license.
6 Note where the license file is saved.
   You need to retrieve the license during the installation of SMAdmin.

### Updating an Evaluation License File

After you have installed Storage Manager 5.0 for eDirectory, you can update your evaluation license or production license by simply replacing the old license file with the new one. You must first rename the new license file to `SM.LIC`. 

Upgrading from Storage Manager 3.1.1 to 5.0

- “Engine” on page 13
- “Event Monitor” on page 13
- “Agents” on page 13
- “SMAdmin” on page 13
- “License” on page 13

The process for upgrading from Novell Storage Manager 3.x for eDirectory to Micro Focus Storage Manager 5.0 for eDirectory involves installing the new updated components over the existing ones.

**Engine**

Upgrade the Engine by following the installation procedures in "Installing the Engine” on page 15.

**Event Monitor**

Upgrade the Event Monitor by following the installation procedures in “Installing the Event Monitor” on page 18.

**Agents**

Upgrade the Agents by following the installation procedures in “Installing an Agent” on page 21.

**SMAdmin**

Update SMAdmin by following the installation and configuration procedures in “Installing and Configuring SMAdmin” on page 24.

**License**

Update the product license during the installation and configuration of SMAdmin.
This section provides procedures for installing the Engine, SMAdmin, the Event Monitor, and the Agents. For information on how these components work in a Storage Manager deployment, see the Micro Focus Storage Manager 5.0 for eDirectory Administration Guide.

You should follow these procedures only after you have performed the prerequisite tasks in Chapter 1, “Prerequisites,” on page 7, and obtained a Micro Focus Storage Manager 5.0 for eDirectory product license as indicated in Chapter 2, “Licensing the Product,” on page 9.

This section also provides procedures for assigning rights and privileges to the NSMProxyRights group that is created when you install SMAdmin.

- “Installing the Engine” on page 15
- “Configuring the Engine” on page 16
- “Installing the Event Monitor” on page 18
- “Configuring the Event Monitor” on page 18
- “Installing an Agent” on page 21
- “Configuring an Agent” on page 22
- “Installing and Configuring SMAdmin” on page 24
- “Authorizing the Event Monitor” on page 28
- “Authorizing the Agents” on page 29

### Installing the Engine

Storage Manager uses only one Engine per tree. The Engine can be installed on a server that meets the following minimum requirements:

- Micro Focus Open Enterprise Server 2018 SP1
- Micro Focus Open Enterprise Server 11 SP2
- Micro Focus Open Enterprise Server 2015

1. At the root of the SM-eDir_5_0_0.iso image, open SLES 11 folder.
2. Locate and click novell-storage-manager-engine-5.0-xx.x86_64.rpm.
3. Save the RPM.
4. Launch a terminal session.
5. Install the Engine RPM package by typing:
   ```
   # rpm -ivh novell-storage-manager-engine-5.0-xx.x86_64.rpm.
   ```
6. Continue with “Configuring the Engine” on page 16.
Configuring the Engine

1. At the same terminal, type `nsmengine-config` and press Enter. The console is updated and looks similar to the one below.

   ![Terminal Console](image)

   If your server has multiple NIC cards, multiple IP address options are listed.

2. Specify the IP address of the server hosting the Engine and press Enter. If the displayed IP address is correct, you can press 0.

3. When the HTTP Port [0] option appears, type `0` and press Enter. The console is updated and looks similar to the one below:
4 Unless there is a conflict, accept the default HTTPS port number of 3009 by pressing Enter. If you need to use another port number, provide the new port number.

5 Press Y to use the default server name for the common name of the certificate.

6 Press Enter to continue.

The certificate is generated.

7 Press Enter to continue.

8 When you are asked if you want to start the service, click Y for yes.

This starts the Engine.

9 Press Enter to continue.

The console is updated and looks similar to the one below.
At this point, you can navigate through the menu to see how to perform management tasks on the Engine when necessary.

10 Press q to quit.

Installing the Event Monitor

The Event Monitor can be installed on any of the following servers:

- Micro Focus Open Enterprise Server 2018 SP1
- Micro Focus Open Enterprise Server 11 SP2
- Micro Focus Open Enterprise Server 2015

Other notable information about the Event Monitor:

- You can have multiple Event Monitors per directory tree.
- As a best practice, Micro Focus recommends two Event Monitors per replica ring
- The Event Monitor must be permitted to make outbound connections through the firewall

1 At the root of the SM-eDir_5_0_0.iso image, open the SLES11 folder.
2 Locate and click novell-storage-manager-event-5.0.0-xx.xxx.rpm.
3 Save the RPM.
4 Launch a terminal session.
5 Install the Event Monitor RPM package by typing:
   # rpm -ivh novell-storage-manager-event-5.0.0-xx.xxx.rpm.
6 Continue with "Configuring the Event Monitor" on page 18.

Configuring the Event Monitor

1 At the same terminal, type nsmevent-config and press Enter.
The console is updated and looks similar to the one below.

2 Specify the IP address of the server you are going to monitor.
   For example, if you are going to monitor this server, type 0. If you are going to monitor another
   server, type 1 and then type the IP address and other configuration information that is requested.

   Event monitors should be configured to monitor at least one server per eDirectory partition ring
   that you care about. That is, you should monitor servers that hold a replica for each eDirectory
   partition that contains objects that you want to receive event data about and for which Storage
   Manager will consequently manage storage.

3 Press Enter.
   The console is updated and looks similar to the one below.
Accept the default LDAP port setting by pressing Enter.

5. Accept the TLS-Auth LDAP SSL type by pressing Enter.

6. Accept the default data path by pressing Enter.

The console is updated and looks similar to the one below.

7. Specify the IP address of the server hosting the Engine and press Enter.
   You can also enter a DNS entry at this prompt.

8. Accept the port entry of 3009 by pressing Enter.
9 Press Enter to accept this server as the default LDAP login server.
10 Press `Y` to use the default server name for the common name of the certificate.
11 Press Enter to continue.
   The certificate is generated.
12 Press Enter to continue.
13 When you are asked if you want to start the service, press `y` for yes.
   This starts the Event Monitor.
14 Press Enter to continue.
   The console is updated and looks similar to the one below.

```
Terminal

Event Service Config
-----------------------------------
LDAP Address: 172.17.2.15
LDAP Port: 389
LDAP SSL Type: TLS-Auth
Data Path: /var/opt/novell/storagemanager/event
Heartbeat: 60 seconds
Engine Address: 172.17.2.15:3009
Use SSL: Yes

[A] LDAP Address  [F] LDAP Ports & Settings
[D] Data Path    [O] Debug Options
[V] View Console  [Q] Quit

Selection: -
```

At this point, you can navigate through the menu to see how to perform management tasks on the Event Monitor when necessary.
15 Press `q` to quit.

**Installing an Agent**

An Agent can be installed on any of the following machines:

- Micro Focus Open Enterprise Server 2018 SP1
- Micro Focus Open Enterprise Server 11 SP2
- Micro Focus Open Enterprise Server 2015
Other notable information about Agents:

- The default Agent port is 3011
- A firewall inbound rule for the Agent is created during the installation

1. At the root of the SM-eDir_5_0_0.iso image, open the SLES11 folder.
2. Locate and click `novell-storage-manager-agent-5.0.0-xx.xxxx.rpm`.
3. Save the RPM.
4. Launch a terminal session.
5. Install the NSM Engine RPM package by typing:
   ```bash
   # rpm -ivh novell-storage-manager-agent-5.0.0-xx.xxxx.rpm.
   ```
6. Continue with “Configuring an Agent” on page 22.

### Configuring an Agent

1. From the same terminal, type `nsmagent-config` and press Enter.
   The console is updated and looks similar to the one below.

   ![Agent Service Setup Wizard](image)

   If your server has multiple NIC cards, multiple IP address options are listed.

2. Specify the IP address of the server hosting the Agent and press Enter.
   If the displayed IP address is correct, you can press 0.

3. When the HTTP Port [0] option appears, type 0 and press Enter.
   The console is updated and looks similar to the one below.
4 Accept the port setting of 3011 by pressing Enter.
5 Accept the default data path by pressing Enter.
6 When you are asked if you want to create the new data path, press y for yes.
7 When you are prompted for the engine address, specify the IP address for the server hosting the Engine.
8 Accept the 3009 port setting for the Engine by pressing Enter.

The console is updated and looks similar to the one below.
When you are asked if you want to use SSL, press y for yes.

Press y to use the default server name for the common name of the certificate.

Press Enter to continue.

The certificate is generated.

Press Enter to continue.

When you are asked if you want to start the service, press y for yes.

This starts the Agent.

Press Enter to continue.

The console is updated and looks similar to the one below.

At this point, you can navigate through the menu to see how to perform management tasks when necessary.

Press q to quit.

Installing and Configuring SMAadmin

SMAadmin is the administrative interface for Storage Manager. It can be installed on:

- Windows 10
- Windows 8.1
- Windows 7

1. At the root of the SM-EDIR_5_0_0.iso image, double-click the Windows folder.
2. Click SMAadmin-5.0.0-xxxx.msi.
3. When asked if you want to save or run the file, save the file to the hard drive of a computer where you will administer Storage Manager.
4. From the saved location, launch the SMAadmin installation file.
5 When you are asked if you want to run this file, click Run.
   An Introduction page appears in the SMAdmin Installation Wizard.
6 Read the text and click Next.
7 Accept the license terms and click Next.
8 Accept the installation path or indicate a new path by using the Browse button.
   To review possible locations, you can click Disk Usage to see all available volumes with disk size and disk availability data.
9 Click Next.
10 If you want to create a shortcut on the desktop, leave the Create shortcut on Desktop check box selected and click Install.
   SMAdmin is installed.
11 Leave the Launch SMAdmin 5 eDirectory check box selected and click Finish.
   SMAdmin is launched.

![Micro Focus Storage Manager Admin - 5.0.0.78](image)

Micro Focus Storage Manager 5.0

- **Engine**: Specify the DNS name or IP address.
- **Port**: Specify the secure port number.

   The default setting is 3009.

- **User Name**: Specify the username.
- **Password**: Specify the password.
   The user must be a member of the SMAdmins group to be able to log in.

15 Click Login.
   If you are unable to log in, your proxy settings might be preventing you from doing so. Until you enter a proxy exception in your proxy settings, you can click Proxy and Logging Options, select Do not use a Proxy, then click Login.
   The Setup Wizard welcome page appears.
16 Read the text on the page and click Next.
17 Do one of the following:
   - Click Browse to locate and select the path to the license file
   - Click Get a License to obtain an evaluation license
18 Click Next.
19 The following page appears, asking if you want to extend the eDirectory schema.

If you plan to manage collaborative storage or auxiliary user storage, you must extend the eDirectory schema.
20 Click Next.
   The following page appears:
21 Accept the account name that will be created and click Next. The following page appears:
22 Select one of the options and click Next.

23 Accept or modify the SM Administrators’ Group name, leave the Add current user to SM Administrators Group check box selected, then click Next.

24 When you are notified that a Proxy Home share will be created on the Engine’s local Proxy Home source path, click Next.

   You are informed that Storage Manager needs to initialize the Engine and its subsystems.

25 Click Next.

26 When you are prompted, enter your password and click Login.

27 Proceed with “Authorizing the Event Monitor” on page 28.

---

**Authorizing the Event Monitor**

1 In SMAadmin, click the Configure tab.

2 Click Event Servers.

3 Select the listed server.

4 Click Authorize.

5 When you are asked if you want to authorize the selected event monitor, click Yes.

6 When the Results page appears, click Close.

7 Proceed with “Authorizing the Agents” on page 29.
Authorizing the Agents

1. In NSMAdmin, click the Configure tab.
2. Click Agent Servers.
3. Select a listed server.
4. Click Authorize.
5. When you are asked if you want to authorize the selected event monitor, click Yes.
6. When the Results page appears, click Close.
Engine Certificate Management

The enhanced SSL certificate management capabilities in Storage Manager allow you to generate your own certificates. This section provides information for managing these certificates.

- "Upgrading Earlier Versions of Storage Manager" on page 31
- "Creating a New Certificate" on page 31
- "Managing Existing Certificates" on page 32

Upgrading Earlier Versions of Storage Manager

When you upgrade the Engine from any earlier version to 3.1, a new SSL certificate must be generated before the engine can start successfully. If the `rcnsmengined` script is invoked to start the Engine before a new certificate is created, the script generates a certificate that uses the default settings.

Creating a New Certificate

You can use the Certificate Management Wizard to create the initial certificate if the Engine has not been started since Storage Manager 3.1.1 was installed. You can also create another certificate if you need to change the default settings.

1. Load the Engine Configuration Utility by running `nsmengine-config`.

![Engine Service Config](image)
2 In the console, enter `c` to start the Certificate Management Wizard.

3 Select the settings you want, then press Enter.

The Certificate Management Wizard prompts you to generate a new OpenSSL certificate using the default server name for the common name of the certificate. You can choose to use a different name for the common name of the certificate if you want.

The Certificate Management Wizard generates a 2048-bit RSA private key and stores it as a `.pem` file in the `Engine config` directory. The details of the certificate are then displayed in the console.

4 Start the Engine, either through the **Service Management** submenu or at the console with the `rcnsmengined start` command.

### Managing Existing Certificates

After a certificate has been created, you can use the Certificate Management Wizard to view the details of an existing certificate.

1 Load the Engine Configuration Utility by running `nsmengine-config`.

2 In the console, enter `c` to start the Certificate Management Wizard.
3 Enter v to view the certificate.
Documentation Updates

This section contains information about documentation content changes that were made in this *Micro Focus Storage Manager 5.0 for eDirectory Installation Guide* after the initial release of Storage Manager 3.0 for eDirectory. The changes are listed according to the date they were published.

The documentation for this product is provided on the Web in two formats: HTML and PDF. The HTML and PDF documentation are both kept up-to-date with the changes listed in this section.

If you need to know whether a copy of the PDF documentation that you are using is the most recent, the PDF document includes a publication date on the title page.

The documentation was updated on the following dates:

**January 24, 2020**

<table>
<thead>
<tr>
<th>Location</th>
<th>Update Description</th>
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</thead>
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<tr>
<td>“Installing the Engine” on page 15.</td>
<td>Updated list of supported host operating systems.</td>
</tr>
<tr>
<td>“Installing the Event Monitor” on page 18.</td>
<td>Updated list of supported host operating systems.</td>
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<tr>
<td>“Installing an Agent” on page 21.</td>
<td>Updated list of supported host operating systems.</td>
</tr>
<tr>
<td>“Installing and Configuring SMAdmin” on page 24.</td>
<td>Updated list of supported host operating systems.</td>
</tr>
</tbody>
</table>

**July 19, 2016**

Based on the re-branding of the product, updates were made to some filenames and paths throughout the manual.

**October 7, 2014**

Updates were made to the following sections:

<table>
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<th>Location</th>
<th>Update Description</th>
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<tbody>
<tr>
<td>Chapter 3, &quot;Upgrading from Storage Manager 3.1.1 to 5.0,&quot; on page 13.</td>
<td>New section.</td>
</tr>
</tbody>
</table>

**October 17, 2013**

Updates were made to the following sections:
## Location Update Description

**February 13, 2013**

Updates were made to the following sections:

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### February 2, 2012

Updates were made to the following section:

### January 18, 2013

Updates were made to the following sections:

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<th>Update Description</th>
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</thead>
<tbody>
<tr>
<td>Multiple locations throughout the manual.</td>
<td>Changed references of 3.0.x to 3.1.</td>
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### May 18, 2012

Updates were made to the following sections:

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### February 2, 2012

Updates were made to the following section:
February 14, 2011

Updates were made to the following section:

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</thead>
<tbody>
<tr>
<td>Throughout the manual.</td>
<td>Changed 3.0.2 to 3.0.x.</td>
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<tr>
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<td>Overview of license types and the features and capabilities enabled in each.</td>
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