



CHAPTER 3

Managing File Backups and Management Data Exports and Imports

This chapter provides procedures for managing file backups and management data.

This chapter includes the following sections:

- [Restoring the Cisco VNMC Software to the Backup Configuration, page 3-1](#)
- [Working With File Backups, page 3-3](#)
- [Working With Management Data Exports and Imports, page 3-13](#)

Restoring the Cisco VNMC Software to the Backup Configuration

The backup configuration include backing up everything including the configuration and the association details. This is a binary backup.

To restore the Cisco VNMC software to the backup configuration, follow these steps:

Step 1 Install the Cisco VNMC virtual machine (VM).

For details, see the *Cisco Virtual Security Gateway, Release 4.2(1)VSG1(1)* and *Cisco Virtual Network Management Center, Release 1.0.1 Installation Guide*.

Step 2 Uninstall the Cisco VSG policy agents.

Connect the Secure Shell to the Cisco VSG console for this task. This step does not cause a traffic disruption.

```
vsg# conf t
vsg (config)# vnm-policy-agent
vsg (config-vnm-policy-agent)# no policy-agent-image
```



Note Perform this step for all Cisco VSGs that are associated with the Cisco VNMC that you are restoring.

Step 3 Uninstall the VSM policy agents.

Connect the Secure Shell to the VSM console for this task. This step does not cause a traffic disruption.

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```
vsm# conf t
vsm (config)# vnm-policy-agent
vsm (config-vnm-policy-agent)# no policy-agent-image
```



Note Perform this step for all VSMS that are associated with the Cisco VNMC you are restoring.

Step 4 Restore the Cisco VNMC database.

Connect the Secure Shell to the Cisco VNMC CLI for this task. Depending upon your Cisco VNMC backup location, restore using File Transfer Protocol (FTP), Secure Copy (SCP), Trivial File Transfer Protocol (TFTP), or Secure File Transfer Protocol (SFTP).

```
vnmc# connect local-mgmt
vnmc (local-mgmt)# restore scp: [//[username@]server] [/path]
```

Step 5 In the Cisco VNMC GUI, choose **Administration > Service Registry > Clients**, and in the Work pane proceed with the following steps:

- a. Wait until each registered VSM displays the operational status as lost-visibility.
- b. Choose each VSM, and click the **Delete Client** icon.

Step 6 In the Cisco VNMC GUI, choose **Resource Management > Resources > Virtual Supervisor Modules**, and verify that the deleted VSMS are not visible.

Step 7 Reinstall the VSM policy agents.



Note If the VSM policy agents must be upgraded, install the new software now.

```
VSM# conf t
VSM (config)# vnm-policy-agent
VSM (config-vnm-policy-agent)# policy-agent-image bootflash:vnmc-vsmpa.1.0.1g.bin
```

Step 8 Wait until all the VSMS have registered in the Service Registry and are displayed under Resource Management > Resources > Virtual Supervisor Modules.

Step 9 Reinstall the Cisco VSG policy agents.



Note If the Cisco VSG policy agents must be upgraded, install the new software now.

```
VSG# conf t
VSG (config)# vnm-policy-agent
VSG (config-vnm-policy-agent)# policy-agent-image bootflash:vnmc-vsgpa.1.0.1g.bin
```

Step 10 Verify the following states after the restore process is complete:



Note The restore process could take a few minutes depending upon your setup environment.

- a. On the Cisco VSG CLI, verify that your configurations are restored to their earlier state.
 - b. On the Cisco VNMC GUI, verify that your objects and policies are restored to their earlier state.
-

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Working With File Backups

This section includes the following topics:

- [Creating File Backups](#), page 3-3
- [Deleting File Backups](#), page 3-4
- [Displaying File Backups](#), page 3-5
- [Enabling File Backups](#), page 3-5
- [Disabling File Backups](#), page 3-6
- [Working With File Backup Attributes](#), page 3-7

Creating File Backups

You can create a file backup.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands](#), page 1-5 for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **create backup** {**ftp:**<>//user@location/file> | **scp:**<>//user@location/file> | **sftp:**<>//user@location/file> | **tftp:**<>//server:port/path>} **full-state** {**disabled** | **enabled**}
3. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnm# scope system	Places you in system mode.
Step 2	create backup Example: vnm /system # create backup ftp://de@test/testfile full-state enabled	Creates a file backup.
Step 3	commit-buffer Example: vnm /system/backup* # commit-buffer	Commits (saves) the configuration.

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EXAMPLES

This example shows how to create a file backup:

```
vnmc# scope system
vnmc /system # create backup ftp://de@test/testfile full-state enabled

Password:
vnmc /system/backup* # commit-buffer
vnmc /system/backup #
```

Deleting File Backups

You can delete a file backup.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **delete backup** *<hostname or IP address>*
3. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	delete backup Example: vnmc /system # delete backup testhostname	Deletes the file backup.
Step 3	commit-buffer Example: vnmc /system* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to delete a file backup:

```
vnmc# scope system
vnmc /system # delete backup testfile
vnmc /system* # commit-buffer
vnmc /system #
```

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Displaying File Backups

You can display a list of file backups.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. `scope system`
2. `show backup`

DETAILED STEPS

	Command	Purpose
Step 1	<code>scope system</code> Example: vnmc# <code>scope system</code>	Places you in system mode.
Step 2	<code>show backup</code> Example: vnmc /system # <code>show backup</code>	Displays a list of file backups.

EXAMPLES

This example shows how to display a list of file backups:

```
vnmc# scope system
vnmc /system # show backup

Backup:
  Hostname      Type           User           Protocol  Administrative State Description
  -----
  test          Full State    testOne        Ftp       Enabled
  testTwo       Full State    testTwo        Ftp       Enabled
vnmc /system #
```

Enabling File Backups

You can enable a file backup.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

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CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope backup <hostname>**
3. **enable**
4. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnm# scope system	Places you in system mode.
Step 2	scope backup Example: vnm /system # scope backup testhostname	Places you in backup mode.
Step 3	enable Example: vnm /system/backup # enable	Enables the backup.
Step 4	commit-buffer Example: vnm /system/backup* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to enable a file backup:

```
vnm# scope system
vnm /system # scope backup testhostname
vnm /system/backup # enable
```

```
Password:
vnm /system/backup* # commit-buffer
vnm /system/backup #
```

Disabling File Backups

You can disable a file backup.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

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CLI

Management controller

SUMMARY STEPS

1. `scope system`
2. `scope backup <hostname>`
3. `disable`
4. `commit-buffer`

DETAILED STEPS

	Command	Purpose
Step 1	<code>scope system</code> Example: vnm# <code>scope system</code>	Places you in system mode.
Step 2	<code>scope backup</code> Example: vnm /system # <code>scope backup</code> testhostname	Places you in backup mode.
Step 3	<code>disable</code> Example: vnm /system/backup # <code>disable</code>	Disables the backup.
Step 4	<code>commit-buffer</code> Example: vnm /system/backup* # <code>commit-buffer</code>	Commits (saves) the configuration.

EXAMPLES

This example shows how to disable a file backup:

```
vnm# scope system
vnm /system # scope backup testhostname
vnm /system/backup # disable
```

```
Password:
vnm /system/backup* # commit-buffer
vnm /system/backup #
```

Working With File Backup Attributes

This section contains the following topics:

- [Setting the Description Attribute for File Backups, page 3-8](#)
- [Setting the Password Attribute for File Backups, page 3-9](#)
- [Setting the Protocol Attribute for File Backups, page 3-10](#)
- [Setting the Remote File Attribute for File Backups, page 3-10](#)

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- [Setting the Type Attribute for File Backups, page 3-11](#)
- [Setting the User Attribute for File Backups, page 3-12](#)

Setting the Description Attribute for File Backups

You can set the description attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope backup <hostname>**
3. **set descr <description>**
4. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope backup Example: vnmc /system # scope backup testhostname	Places you in backup mode.
Step 3	set descr Example: vnmc /system/backup # set descr testAll	Sets the description attribute.
Step 4	commit-buffer Example: vnmc /system/backup* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the description attribute:

```
vnmc# scope system
vnmc /system # scope backup testhostname
vnmc /system/backup # set descr testAll
vnmc /system/backup* # commit-buffer
vnmc /system/backup #
```


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Setting the Password Attribute for File Backups

You can set the password attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. `scope system`
2. `scope backup <hostname>`
3. `set password`
4. `commit-buffer`

DETAILED STEPS

	Command	Purpose
Step 1	<code>scope system</code> Example: vnmc# <code>scope system</code>	Places you in system mode.
Step 2	<code>scope backup</code> Example: vnmc /system # <code>scope backup</code> testhostname	Places you in backup mode.
Step 3	<code>set password</code> Example: vnmc /system/backup # <code>set password</code>	Sets the password attribute.
Step 4	<code>commit-buffer</code> Example: vnmc /system/backup* # <code>commit-buffer</code>	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the password attribute:

```
vnmc# scope system
vnmc /system # scope backup testhostname
vnmc /system/backup # set password
```

```
Password:
vnmc /system/backup #
```

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Setting the Protocol Attribute for File Backups

You can set the protocol attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope backup** <hostname>
3. **set protocol**
4. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope backup Example: vnmc /system # scope backup testhostname	Places you in backup mode.
Step 3	set protocol Example: vnmc /system/backup # set protocol tftp	Sets the protocol attribute.
Step 4	commit-buffer Example: vnmc /system/backup* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the protocol attribute:

```
vnmc# scope system
vnmc /system # scope backup testhostname
vnmc /system/backup # set protocol tftp
vnmc /system/backup* # commit-buffer
vnmc /system/backup #
```

Setting the Remote File Attribute for File Backups

You can set the remote file prefix attribute.

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BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope backup** <hostname>
3. **set remote-file**
4. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope backup Example: vnmc /system # scope backup testhostname	Places you in backup mode.
Step 3	set remote-file Example: vnmc /system/backup # set remote-file a	Sets the remote file prefix attribute.
Step 4	commit-buffer Example: vnmc /system/backup* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the remote file prefix attribute:

```
vnmc# scope system
vnmc /system # scope backup testhostname
vnmc /system/backup # set remote-file-prefix /directory/file_a
vnmc /system/backup* # commit-buffer
vnmc /system/backup #
```

Setting the Type Attribute for File Backups

You can set the type attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

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Management controller

SUMMARY STEPS

1. **scope system**
2. **scope backup** <hostname>
3. **set type**
4. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope backup Example: vnmc /system # scope backup testfile	Places you in backup mode.
Step 3	set type Example: vnmc /system/backup # set type full-state	Sets the type attribute.
Step 4	commit-buffer Example: vnmc /system/backup* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the type attribute:

```
vnmc# scope system
vnmc /system # scope backup test
vnmc /system/backup # set type full-state
vnmc /system/backup* # commit-buffer
vnmc /system/backup #
```

Setting the User Attribute for File Backups

You can set the user attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

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SUMMARY STEPS

1. `scope system`
2. `scope backup <hostname>`
3. `set user`
4. `commit-buffer`

DETAILED STEPS

	Command	Purpose
Step 1	<code>scope system</code> Example: vnmc# <code>scope system</code>	Places you in system mode.
Step 2	<code>scope backup</code> Example: vnmc /system # <code>scope backup</code> testhostname	Places you in backup mode.
Step 3	<code>set user</code> Example: vnmc /system/backup # <code>set user techs</code>	Sets the user attribute.
Step 4	<code>commit-buffer</code> Example: vnmc /system/backup* # <code>commit-buffer</code>	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the user attribute:

```
vnmc# scope system
vnmc /system # scope backup testhostname
vnmc /system/backup # set user techs
vnmc /system/backup* # commit-buffer
vnmc /system/backup #
```

Working With Management Data Exports and Imports

Data export only includes the configuration.

This section includes the following topics:

- [Creating Management Data Export Services, page 3-14](#)
- [Deleting Management Data Export Services, page 3-15](#)
- [Displaying Management Data Export Services, page 3-15](#)
- [Enabling Management Data Export Services, page 3-16](#)
- [Disabling Management Data Export Services, page 3-17](#)
- [Creating Management Data Import Services, page 3-18](#)

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- [Deleting Management Data Import Service, page 3-19](#)
- [Displaying Management Data Import Services, page 3-20](#)
- [Enabling Management Data Import Services, page 3-21](#)
- [Working With Management Data Attributes, page 3-23](#)

Creating Management Data Export Services

You can create VNMC management data export services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS-

1. **scope system**
2. **create export** {ftp:<//user@location/file> | scp:<//user@location/file> | sftp:<//user@location/file> | tftp:<//server:port/path>} {config-all | config-logical | config-system} {disabled | enabled}
3. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnm# scope system	Places you in system mode.
Step 2	create export Example: vnm /system # create export ftp://de@test/PA12 config-all enabled	Enables the management data export service.
Step 3	commit-buffer Example: vnm /system* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to create a management data export service:

```
vnm# scope system
vnm /system # create export ftp://de@test/PA12 config-all enabled

Password:
vnm /system/export* # commit-buffer
```

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Deleting Management Data Export Services

You can delete a management data export service.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. `scope system`
2. `delete export <hostname or IP address>`
3. `commit-buffer`

DETAILED STEPS

	Command	Purpose
Step 1	<code>scope system</code> Example: <code>vnmc# scope system</code>	Places you in system mode.
Step 2	<code>delete export</code> Example: <code>vnmc /system # delete export hostname</code>	Deletes the export service.
Step 3	<code>commit-buffer</code> Example: <code>vnmc /system* # commit-buffer</code>	Commits (saves) the configuration.

EXAMPLES

This example shows how to delete a management data export service:

```
vnmc# scope system
vnmc /system # delete export PA12
vnmc /system* # commit-buffer
vnmc /system #
```

Displaying Management Data Export Services

You can display a list of export services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

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CLI

Management controller

SUMMARY STEPS

1. `scope system`
2. `show export`

DETAILED STEPS

	Command	Purpose
Step 1	<code>scope system</code> Example: vnmc# <code>scope system</code>	Places you in system mode.
Step 2	<code>show export</code> Example: vnmc /system # <code>show export</code>	Displays a list of export services.

EXAMPLES

This example shows how to display a list of export services:

```
vnmc# scope system
vnmc /system # show export
```

Management Data Export:

```

  Hostname  User      Protocol Data Export Type Administrative State Description
  -----  -
  PA11     test      Ftp      Config System  Enabled
  PA13     test      Ftp      Config All     Enabled
vnmc /system #
```

Enabling Management Data Export Services

You can enable management data export services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. `scope system`
2. `scope export <hostname or IP address>`
3. `enable`

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4. commit-buffer

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope export Example: vnmc /system # scope export hostname	Places you in export mode.
Step 3	enable Example: vnmc /system/export # enable	Enables management data export services.
Step 4	commit-buffer Example: vnmc /system/export* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to enable a management data export service:

```
vnmc# scope system
vnmc /system # scope export hostname
vnmc /system/export # enable

Password:
vnmc /system/export* # commit-buffer
vnmc /system/export #
```

Disabling Management Data Export Services

You can disable management data export services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope export** *<hostname or IP address>*
3. **disable**
4. **commit-buffer**

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DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope export Example: vnmc /system # scope export hostname	Places you in export mode.
Step 3	disable Example: vnmc /system/export # disable	Disables management data export services.
Step 4	commit-buffer Example: vnmc /system/export* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to enable a management data export service:

```
vnmc# scope system
vnmc /system # scope export hostname
vnmc /system/export # disable

Password:
vnmc /system/export* # commit-buffer
vnmc /system/export #
```

Creating Management Data Import Services

You can create a VNMC management data import service.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **create import {ftp: | scp: | sftp: | tftp:} {merge} {disabled | enabled}**
3. **commit-buffer**

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DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	create import Example: vnmc /system # create import ftp://de@test/PA13 enabled	Enables the management data import service.
Step 3	commit-buffer Example: vnmc /system* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to create a management data import service:

```
vnmc# scope system
vnmc /system # create import ftp://de@test/PA13 enabled

Password:
vnmc /system/import* # commit-buffer
vnmc /system/import #
```

Deleting Management Data Import Service

You can delete the management data import service.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **delete import** <hostname or IP address>
3. **commit-buffer**

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DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	delete import Example: vnmc /system # delete import hostname	Deletes the import service.
Step 3	commit-buffer Example: vnmc /system* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to delete the import service:

```
vnmc# scope system
vnmc /system # delete import hostname
vnmc /system* # commit-buffer
vnmc /system #
```

Displaying Management Data Import Services

You can display a list of import services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **show import**

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DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	show import Example: vnmc /system # show import	Displays a list of import services.

EXAMPLES

This example shows how to display a list of import services:

```
vnmc# scope system
vnmc /system # show import
```

Management Data Import:

```

  Hostname   User      Protocol  Data Import  Action  Administrative State  Description
  -----
  PA12       test      Ftp       Replace      Enabled
  PA14       test      Ftp       Replace      Enabled
vnmc /system #
```

Enabling Management Data Import Services

You can enable management data import services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope import** <hostname or IP address>
3. **enable**
4. **commit-buffer**

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DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope import Example: vnmc /system # scope import hostname	Places you in import mode.
Step 3	enable Example: vnmc /system/import # enable	Enables management data import services.
Step 4	commit-buffer Example: vnmc /system/import* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to enable a management data import service:

```
vnmc# scope system
vnmc /system # scope import hostname
vnmc /system/import # enable

Password:
vnmc /system/import* # commit-buffer
vnmc /system/import #
```

Disabling Management Data Import Services

You can disable management data import services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope import** *<hostname or IP address>*
3. **disable**
4. **commit-buffer**

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DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope import Example: vnmc /system # scope import hostname	Places you in import mode.
Step 3	disable Example: vnmc /system/import # disable	Disables management data import services.
Step 4	commit-buffer Example: vnmc /system/import* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to disable a management data import service:

```
vnmc# scope system
vnmc /system # scope import hostname
vnmc /system/import # disable
```

```
Password:
vnmc /system/import* # commit-buffer
vnmc /system/import #
```

Working With Management Data Attributes

This section includes the following topics:

- [Setting the Action Attribute for Imports, page 3-23](#)
- [Setting the Description Attribute for Exports and Imports, page 3-24](#)
- [Setting the Password Attribute for Exports and Imports, page 3-26](#)
- [Setting the Protocol Attribute for Exports and Imports, page 3-27](#)
- [Setting the Remote File Prefix Attribute for Exports and Imports, page 3-28](#)
- [Setting the Type Attribute for Exports and Imports, page 3-30](#)
- [Setting the User Attribute for Exports and Imports, page 3-31](#)

Setting the Action Attribute for Imports

You can set the action attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

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Management controller

SUMMARY STEPS

1. **scope system**
2. **scope import** *<hostname or IP address>*
3. **set action**
4. **commit-buffer**

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope import Example: vnmc /system # scope import hostname	Places you in import mode.
Step 3	set action Example: vnmc /system/import # set action merge	Sets the action attribute.
Step 4	commit-buffer Example: vnmc /system/import* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the action attribute:

```
vnmc# scope system
vnmc /system # scope import hostname
vnmc /system/import # set action merge
vnmc /system/import* # commit-buffer
vnmc /system/import #
```

Setting the Description Attribute for Exports and Imports

You can set the description attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

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SUMMARY STEPS

1. `scope system`
2. `scope export <hostname or IP address> | scope import <hostname or IP address>`
3. `set descr <description>`
4. `commit-buffer`

DETAILED STEPS (export mode)

	Command	Purpose
Step 1	<code>scope system</code> Example: vnmc# <code>scope system</code>	Places you in system mode.
Step 2	<code>scope export</code> Example: vnmc /system # <code>scope export hostname</code>	Places you in export mode.
Step 3	<code>set descr</code> Example: vnmc /system/export # <code>set descr testA</code>	Sets the description attribute.
Step 4	<code>commit-buffer</code> Example: vnmc /system/export* # <code>commit-buffer</code>	Commits (saves) the configuration.

DETAILED STEPS (import mode)

	Command	Purpose
Step 1	<code>scope system</code> Example: vnmc# <code>scope system</code>	Places you in system mode.
Step 2	<code>scope import</code> Example: vnmc /system # <code>scope import hostname</code>	Places you in import mode.
Step 3	<code>set descr</code> Example: vnmc /system/import # <code>set descr testA</code>	Sets the description attribute.
Step 4	<code>commit-buffer</code> Example: vnmc /system/import* # <code>commit-buffer</code>	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the description attribute in export mode:

```
vnmc# scope system
```

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```

vnmc /system # scope export hostname
vnmc /system/backup # set descr testA
vnmc /system/backup* # commit-buffer
vnmc /system/backup* #

```

Setting the Password Attribute for Exports and Imports

You can set the password attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope export** <hostname or IP address> | **scope import** <hostname or IP address>
3. **set password**
4. **commit-buffer**

DETAILED STEPS (export mode)

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope export Example: vnmc /system # scope expor PA12	Places you in export mode.
Step 3	set password Example: vnmc /system/export # set password	Sets the password attribute.
Step 4	commit-buffer Example: vnmc /system/export* # commit-buffer	Commits (saves) the configuration.

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DETAILED STEPS (import mode)

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope import Example: vnmc /system # scope import hostname	Places you in import mode.
Step 3	set password Example: vnmc /system/import # set password	Sets the password attribute.
Step 4	commit-buffer Example: vnmc /system/import* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the password attribute in import mode:

```
vnmc# scope system
vnmc /system # scope import hostname
vnmc /system/import # set password

Password:
vnmc /system/import #
```

Setting the Protocol Attribute for Exports and Imports

You can set the protocol. attribute

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope export** <hostname or IP address> | **scope import** <hostname or IP address>
3. **set protocol**
4. **commit-buffer**

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DETAILED STEPS (export mode)

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope export Example: vnmc /system # scope export hostname	Places you in export mode.
Step 3	set protocol Example: vnmc /system/export # set protocol ftp	Sets the password attribute.
Step 4	commit-buffer Example: vnmc /system/export* # commit-buffer	Commits (saves) the configuration.

DETAILED STEPS (import mode)

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope import Example: vnmc /system # scope import hostname	Places you in import mode.
Step 3	set protocol Example: vnmc /system/import # set protocol ftp	Sets the protocol attribute.
Step 4	commit-buffer Example: vnmc /system/import* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the protocol attribute in import mode:

```
vnmc# scope system
vnmc /system # scope import hostname
vnmc /system/import # set protocol ftp
vnmc /system/import* # commit-buffer
vnmc /system/import #
```

Setting the Remote File Prefix Attribute for Exports and Imports

You can set the protocol.

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BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands](#), page 1-5 for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope export** <hostname or IP address> | **scope import** <hostname or IP address>
3. **set remote-file-prefix**
4. **commit-buffer**

DETAILED STEPS (export mode)

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope export Example: vnmc /system # scope export hostname	Places you in export mode.
Step 3	set remote-file-prefix Example: vnmc /system/export # set remote-file-prefix test	Sets the remote file prefix attribute.
Step 4	commit-buffer Example: vnmc /system/export* # commit-buffer	Commits (saves) the configuration.

DETAILED STEPS (import mode)

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope import Example: vnmc /system # scope import hostname	Places you in import mode.

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	Command	Purpose
Step 3	set remote-file-index Example: vnm /system/import # set remote-file-index test	Sets the remote file index attribute.
Step 4	commit-buffer Example: vnm /system/import* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the remote file prefix attribute in export mode:

```
vnm# scope system
vnm /system # scope export hostname
vnm /system/export # set remote-file-prefix test
vnm /system/export* # commit-buffer
vnm /system/export #
```

Setting the Type Attribute for Exports and Imports

You can set the type attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope system**
2. **scope backup <hostname> | scope export <hostname or IP address>**
3. **set type**
4. **commit-buffer**

DETAILED STEPS (export mode)

	Command	Purpose
Step 1	scope system Example: vnm# scope system	Places you in system mode.
Step 2	scope export Example: vnm /system # scope export hostname	Places you in export mode.

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	Command	Purpose
Step 3	set type Example: vnmc /system/export # set type full-state	Sets the type attribute.
Step 4	commit-buffer Example: vnmc /system/export* # commit-buffer	Commits (saves) the configuration.

DETAILED STEPS (import mode)

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	scope import Example: vnmc /system # scope import hostname	Places you in import mode.
Step 3	set type Example: vnmc /system/import # set type full-state	Sets the type attribute.
Step 4	commit-buffer Example: vnmc /system/import* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the type attribute in export mode:

```
vnmc# scope system
vnmc /system # scope export hostname
vnmc /system/backup # set type full-state
vnmc /system/backup* # commit-buffer
vnmc /system/backup #
```

Setting the User Attribute for Exports and Imports

You can set the user attribute.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

Send document comments to vnmc-docfeedback@cisco.com**SUMMARY STEPS**

1. `scope system`
2. `scope export <hostname or IP address> | scope import <hostname or IP address>`
3. `set user`
4. `commit-buffer`

DETAILED STEPS (export mode)

	Command	Purpose
Step 1	<code>scope system</code> Example: vnmc# <code>scope system</code>	Places you in system mode.
Step 2	<code>scope export</code> Example: vnmc /system # <code>scope export hostname</code>	Places you in export mode.
Step 3	<code>set user</code> Example: vnmc /system/export # <code>set user techs</code>	Sets the user attribute.
Step 4	<code>commit-buffer</code> Example: vnmc /system/export* # <code>commit-buffer</code>	Commits (saves) the configuration.

DETAILED STEPS (import mode)

	Command	Purpose
Step 1	<code>scope system</code> Example: vnmc# <code>scope system</code>	Places you in system mode.
Step 2	<code>scope import</code> Example: vnmc /system # <code>scope import hostname</code>	Places you in import mode.
Step 3	<code>set user</code> Example: vnmc /system/import # <code>set user techs</code>	Sets the user attribute.
Step 4	<code>commit-buffer</code> Example: vnmc /system/import* # <code>commit-buffer</code>	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the user attribute in import mode:

```
vnmc# scope system
```


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```
vnmc /system # scope import hostname  
vnmc /system/import # set user techs  
vnmc /system/import* # commit-buffer  
vnmc /system/import #
```

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