



## CHAPTER 4

# Managing Logs, Events and Faults

---

This chapter provides procedures for managing VNMC management logging.

This chapter includes the following sections:

- [Working With Management Logs, page 4-1](#)
- [Acknowledging Faults, page 4-6](#)
- [Displaying Audit Logs, page 4-7](#)
- [Displaying Events, page 4-8](#)
- [Displaying Faults, page 4-10](#)

## Working With Management Logs

This section includes the following topics:

- [Setting Severity Levels and Log Size, page 4-1](#)
- [Resetting the Management Log Levels, page 4-2](#)
- [Saving Management Log Parameters, page 4-3](#)
- [Displaying Management Logs, page 4-4](#)

## Setting Severity Levels and Log Size

You can set the severity level and log size.

### BEFORE YOU BEGIN

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

### CLI

Management controller  
Policy manager  
Resource manager  
Service registry  
Virtual machine manager

***Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)*****SUMMARY STEPS**

1. (Optional) **connect** {**policy-mgr** | **resource-mgr** | **service-reg** | **vm-mgr**}

**Note**


---

Step 1 is optional. You can also perform the **set** command in the management controller CLI.

---

2. **scope monitoring**
3. **scope sysdebug**
4. **scope mgmt-logging**
5. **set** {**all** | **file** | **module**}

**EXAMPLES**

This example shows how to assign a critical severity level to all logging files in the resource manager CLI:

```
vnmc# connect resource-mgr
Cisco Virtual Network Management Center
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

vnmc(resource-mgr)# scope monitoring
vnmc(resource-mgr) /monitoring # scope sysdebug
vnmc(resource-mgr) /monitoring/sysdebug # scope mgmt-logging
vnmc(resource-mgr) /monitoring/sysdebug/mgmt-logging # set all crit
vnmc(resource-mgr) /monitoring/sysdebug/mgmt-logging #
```

**Resetting the Management Log Levels**

You can reset the management log levels.

**BEFORE YOU BEGIN**

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

**CLI**

Management controller  
 Policy manager  
 Resource manager  
 Service registry  
 Virtual machine manager

## *Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)*

### SUMMARY STEPS

1. (Optional) **connect** {**policy-mgr** | **resource-mgr** | **service-reg** | **vm-mgr**}



#### Note

Step 1 is optional. You can also perform the **reset** command in the management controller CLI.

2. **scope monitoring**
3. **scope sysdebug**
4. **scope mgmt-logging**
5. **reset**

### EXAMPLES

This example shows how to reset in the resource manager CLI:

```
vnmc# connect resource-mgr
Cisco Virtual Network Management Center
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

vnmc(resource-mgr)# scope monitoring
vnmc(resource-mgr) /monitoring # scope sysdebug
vnmc(resource-mgr) /monitoring/sysdebug # scope mgmt-logging
vnmc(resource-mgr) /monitoring/sysdebug/mgmt-logging # reset
vnmc(resource-mgr) /monitoring/sysdebug/mgmt-logging #
```

## Saving Management Log Parameters

You can save the management log parameters.

### BEFORE YOU BEGIN

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

### CLI

Management controller  
 Policy manager  
 Resource manager  
 Service registry  
 Virtual machine manager

***Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)*****SUMMARY STEPS**

1. (Optional) **connect** {**policy-mgr** | **resource-mgr** | **service-reg** | **vm-mgr**}

**Note**


---

Step 1 is optional. You can also perform the **save** command in the management controller CLI.

---

2. **scope monitoring**
3. **scope sysdebug**
4. **scope mgmt-logging**
5. **save**

**EXAMPLES**

This example shows how to save in the resource manager CLI:

```

vnmc# connect resource-mgr
Cisco Virtual Network Management Center
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

vnmc(resource-mgr)# scope monitoring
vnmc(resource-mgr) /monitoring # scope sysdebug
vnmc(resource-mgr) /monitoring/sysdebug # scope mgmt-logging
vnmc(resource-mgr) /monitoring/sysdebug/mgmt-logging # save
vnmc(resource-mgr) /monitoring/sysdebug/mgmt-logging #

```

**Displaying Management Logs**

You can display management logs.

**BEFORE YOU BEGIN**

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

**CLI**

Management controller  
 Policy manager  
 Resource manager  
 Service registry  
 Virtual machine manager

**Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)****SUMMARY STEPS**

1. (Optional) **connect** {**policy-mgr** | **resource-mgr** | **service-reg** | **vm-mgr**}

**Note**


---

Step 1 is optional. You can perform the **show** command in the management controller CLI.

---

2. **scope monitoring**
3. **scope sysdebug**
4. **scope mgmt-logging**
5. **show**

**EXAMPLES**

This example shows how to display all log files in the resource manager CLI:

```
vnmc# connect resource-mgr
Cisco Virtual Network Management Center
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

vnmc(resource-mgr)# scope monitoring
vnmc(resource-mgr) /monitoring # scope sysdebug
vnmc(resource-mgr) /monitoring/sysdebug # scope mgmt-logging
vnmc(resource-mgr) /monitoring/sysdebug/mgmt-logging # show
```

```
Log File Size Limit:          10000000

Name                          Level  Default Level
-----
agdriver                       Crit   Debug1
ape                             Crit   Debug1
app_sam_cim                    Crit   Debug1
app_sam_dme                    Crit   Debug1
app_sam_ucsmAG                Crit   Debug1
app_unittest_testsvc          Crit   Debug1
auth                           Crit   Debug1
autocond                       Crit   Debug1
bio_stream                     Crit   Debug1
callhome                       Crit   Debug1
catalog                        Crit   Debug1
char_stream                    Crit   Debug1
core_transactor                Crit   Debug1
core_utils                     Crit   Debug1
doer                           Crit   Debug1
event_                         Crit   Debug1
event_channel                  Crit   Debug1
exception_handling             Crit   Debug1
fault                          Crit   Debug1
filter                         Crit   Debug1
fsm                            Crit   Debug1
http_client                    Crit   Debug1
```

***Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)***

```

log                               Crit   Debug1
meta                               Crit   Debug1
method                             Crit   Debug1
mgmt                                Crit   Debug1
mgmtif                              Crit   Debug1
mit_init                            Crit   Debug1
mo                                   Crit   Debug1
mo_qualifier                        Crit   Debug1
mod_nuova                           Crit   Debug1
net                                  Crit   Debug1
org                                  Crit   Debug1
os                                   Crit   Debug1
pam_proxy                           Crit   Debug1
pool                                 Crit   Debug1
proc_app                             Crit   Debug1
prt                                  Crit   Debug1
sam_extXMLApi_                      Crit   Debug1
sam_sec                              Crit   Debug1
sam_sessionmgrAG                    Crit   Debug1
sam_ucssh                            Crit   Debug1
smbios                              Crit   Debug1
snmp                                 Crit   Debug1
solprot                             Crit   Debug1
stats                                Crit   Debug1
sysdebug                            Crit   Debug1
top                                  Crit   Debug1
tx                                   Crit   Debug1
xml_parser                           Crit   Debug1
vnmc(resource-mgr) /monitoring/sysdebug/mgmt-logging #

```

## Acknowledging Faults

You can acknowledge faults.

### BEFORE YOU BEGIN

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

### CLI

Management controller  
 Policy manager  
 Resource manager  
 Service registry  
 Virtual machine manager

### SUMMARY STEPS

1. (Optional) **connect** { **policy-mgr** | **resource-mgr** | **service-reg** | **vm-mgr** }



#### Note

Step 1 is optional. You can perform the **acknowledge** command in the management controller CLI.

1. **scope monitoring**

***Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)***

2. **acknowledge fault**
3. **commit-buffer**

## EXAMPLES

This example shows how to acknowledge a fault in the management controller CLI:

```
vnmc# scope monitoring
vnmc /monitoring # acknowledge fault 10194
vnmc /monitoring* # commit-buffer
vnmc /monitoring #
```

# Displaying Audit Logs

You can display a list of audit logs.

## BEFORE YOU BEGIN

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

## CLI

Management controller  
Policy manager  
Resource manager  
Service registry  
Virtual machine manager

## SUMMARY STEPS

1. (Optional) **connect {policy-mgr | resource-mgr | service-reg | vm-mgr}**



### Note

---

Step 1 is optional. You can perform this **show** command in the management controller CLI.

---

2. **scope monitoring**
3. **show audit-logs**

## EXAMPLES

This example shows how to display a list of audit logs in the policy manager CLI:

```
vnmc# connect policy-mgr
Cisco Virtual Network Management Center
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
```

***Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)***

```
http://www.opensource.org/licenses/lgpl-2.1.php
```

```
vnmc(resource-mgr)# scope monitoring
vnmc(policy-mgr) /monitoring # show audit-logs
```

```
Audit trail logs:
```

Creation Time	User	ID	Action	Description
2010-11-29T14:56:29.195	admin	10615	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.195	admin	10616	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.195	admin	10617	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.194	admin	10607	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.194	admin	10608	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.194	admin	10609	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.194	admin	10610	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.194	admin	10611	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.194	admin	10612	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.194	admin	10613	Modification	sysdebug mgmt log
control module				
2010-11-29T14:56:29.194	admin	10614	Modification	sysdebug mgmt log

```
vnmc(policy-mgr) /monitoring #
```

## Displaying Events

You can display a list of events.

### BEFORE YOU BEGIN

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

### CLI

- Management controller
- Policy manager
- Resource manager
- Service registry
- Virtual machine manager



**Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)****SUMMARY STEPS**

1. (Optional) **connect** {**policy-mgr** | **resource-mgr** | **service-reg** | **vm-mgr**}

**Note**


---

Step 1 is optional. You can perform this **show** command in the management controller CLI.

---

2. **scope monitoring**
3. **show events**

**EXAMPLES**

This example shows how to display a list of events in the policy manager CLI:

```

vnmc# connect policy-mgr
Cisco Virtual Network Management Center
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

vnmc(resource-mgr)# scope monitoring
vnmc(policy-mgr) /monitoring # show event

Creation Time          ID          Code          Description
-----
2010-11-22T12:09:26.369    10161    E4194467    [FSM:END]: Resolve Mgmt Controller Fsm(FSM:sam:dme:ObserveObservedResolveControllerFsm)
2010-11-22T12:09:26.368    10160    E4194465    [FSM:STAGE:END]: Resolve Mgmt Controller FSM Execute(FSM-STAGE:sam:dme:ObserveObservedResolveControllerFsm:Execute)
2010-11-22T12:09:26.367    10158    E4194465    [FSM:STAGE:STALE-SUCCESS]: Resolve Mgmt Controller FSM Execute(FSM-STAGE:sam:dme:ObserveObservedResolveControllerFsm:Execute)
2010-11-22T12:09:26.018    10156    E4194465    [FSM:STAGE:ASYNC]: Resolve Mgmt Controller FSM Execute(FSM-STAGE:sam:dme:ObserveObservedResolveControllerFsm:Execute)
2010-11-22T12:09:26.017    10153    E4194447    [FSM:END]: Service Registration Fsm(FSM:sam:dme:ExtpolEpRegisterFsm)
2010-11-22T12:09:26.017    10154    E4194464    [FSM:BEGIN]: Resolve Mgmt Controller Fsm(FSM:sam:dme:ObserveObservedResolveControllerFsm)
2010-11-22T12:09:26.017    10155    E4194464    [FSM:STAGE:END]: (FSM-STAGE:sam:dme:ObserveObservedResolveControllerFsm:begin)
2010-11-22T12:09:26.014    10148    E4194445    [FSM:STAGE:END]: Register FSM Execute(FSM-STAGE:sam:dme:ExtpolEpRegisterFsm:Execute)
2010-11-22T12:09:25.991    10144    E4194445    [FSM:STAGE:STALE-SUCCESS]: Register FSM Execute(FSM-STAGE:sam:dme:ExtpolEpRegisterFsm:Execute)
2010-11-22T12:09:25.558    10143    E4194445    [FSM:STAGE:ASYNC]: Register FSM Execute(FSM-STAGE:sam:dme:ExtpolEpRegisterFsm:Execute)
2010-11-22T12:09:25.557    10141    E4194444    [FSM:BEGIN]: Service Registration Fsm(FSM:sam:dme:ExtpolEpRegisterFsm)
2010-11-22T12:09:25.557    10142    E4194444    [FSM:STAGE:END]: (FSM-STAGE:sam:dme:ExtpolEpRegisterFsm:begin)
vnmc(policy-mgr) /monitoring #

```

***Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)***

## Displaying Faults

You can display a list of faults.

### BEFORE YOU BEGIN

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

### CLI

Management controller  
 Policy manager  
 Resource manager  
 Service registry  
 Virtual machine manager

### SUMMARY STEPS

1. (Optional) **connect** { **policy-mgr** | **resource-mgr** | **service-reg** | **vm-mgr** }



#### Note

Step 1 is optional. You can perform the **show** command in the management controller CLI.

2. **scope monitoring**
3. **show fault**

### EXAMPLES

This example shows how to display a list of faults:

```
vnmc# connect policy-mgr
Cisco Virtual Network Management Center
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

vnmc# scope monitoring
vnmc /monitoring # show fault
```

Severity	Code	Last Transition Time	ID	Description
Critical	F999556	2010-11-24T18:38:17.345	20133	[FSM:FAILED]: internal system backup (FSM:sam:dme:MgmtBackupBackup)
Warning	F16516	2010-11-24T18:38:17.344	20131	[FSM:STAGE:FAILED]: internal system backup (FSM-STAGE:sam:dme:MgmtBackupBackup:upload)
Warning	F77956	2010-11-24T18:38:17.344	20129	[FSM:STAGE:REMOTE-ERROR]: Result: end-point-failed Code: unspecified Message: Permission denied (sam:dme:MgmtBackupBackup:upload)

***Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)***

```
vnmc /monitoring #
```

***Send document comments to [vnmc-docfeedback@cisco.com](mailto:vnmc-docfeedback@cisco.com)***