APPENDIX B

Prime Network Log Files

The following topics describe the logs maintained by Prime Network, and the overall logging mechanism and configurable points:

How Prime Network Saves Log Files

Each Prime Network module writes a log file to its own folder within the *NETWORKHOME*/Main/logs folder. Log sizes are limited to 4 MB by default. When a log file reaches its maximum size, Prime Network does the following:

- Zips the log file and appends a number to the backup file.
- Starts a new log file.

In the following example, the oldest file is process.log.2.gz, and process.log is the current log file.

```
11:42 PM      4,481,607      process.out
07:22 AM      5,120,447      process.out.1.gz
03:17 AM      5,120,105      process.out.2.gz
```

When process.log exceeds the maximum size, the following happens:

- The contents of process.out.2.gz are moved to process.log.3.gz.
- The contents of process.out.1.gz are moved to process.log.2.gz.
- The contents of process.out are moved to process.log.1.gz.
- A new log files is started (process.log).

Prime Network saves a maximum of 10 log files for each process. When the number of backups exceeds 10, the oldest file is deleted.

You can change the maximum log file size and the maximum number of backup log files by following the procedure in Change Log File Behavior, page B-2.

For a complete list of log files, see Log Files, page B-3.

Log Files and Server Restarts

Whenever the Prime Network server is restarted, all log files are moved to *NETWORKHOME*/Main/logs/old.

Prime Network saves a maximum of 3 “older” sets of log files in these directories:

NETWORKHOME/Main/logs/old
NETWORKHOME/Main/logs/older
NETWORKHOME/Main/logs/oldest

For example, if a newly-installed Prime Network gateway server has been restarted once, the following happens:

- The contents in *NETWORKHOME*/Main/logs are moved to *NETWORKHOME*/Main/logs/old.
- The latest log files are stored in *NETWORKHOME*/Main/logs.

If the gateway server is restarted a second time, the following happens:

- The contents in *NETWORKHOME*/Main/logs/older are moved to *NETWORKHOME*/Main/logs/oldest.
- The contents in *NETWORKHOME*/Main/logs/old are moved to *NETWORKHOME*/Main/logs/older.
- The latest log files are stored in *NETWORKHOME*/Main/logs.

For a complete list of log files, see Log Files, page B-3.

Change Log File Behavior

Log file behavior is managed by the settings in *NETWORKHOME*/Main/scripts/log.pl. To change the number of log files that are saved, or to change the maximum log size, change the following settings in log.pl:

```
$LASTLOGINDEX = 10;             # max file index to backup.
$MAXSIZE = 1024*1024*4;         # max file size - hitting that size will cause rollover
```

You must restart the gateway server for your changes to take effect.

For a complete list of log files, see Log Files, page B-3.

Log Files

Table B-1 lists the log files that are stored on the gateway server.You can view these files using any text editor. To view a log file for the VNE Customization Builder, you must first specify a log file name using the procedure documented in the *Cisco Prime Network 3.10 Customization Guide*.

Table B-1 Gateway Server Log Files

Gateway Server Log File	Component
Log Files Located in *NETWORKHOME*/Main/logs	
0.out	Switch Virtual Machine (handles communication with unit servers)
11.out	Gateway server
25.out	Event persistence
35.out	Gateway server (CE service discovery)
66.out	Workflow Engine
76.out	Jobs scheduler
77.out	Change and Configuration Management
78.out	VNE topology
83.out	TFTP server (Change and Configuration Management)
84.out	Report manager
99.out	Management Virtual Machine (unit server management)
100.out	Event Collector
nnn.out	User-created AVM *nnn* management
nnn.log.restart*x*	AVM restart information for AVM *nnn* (*x* can be 1-5)
dmctl.log	
drivers/ivne-install-log-*mmddyy*-*hhmmss*	Device Package installation log (web repository or local folder)
drivers_rollback_*mmddyy*-*hhmmss*.log	Device Package rollback log
drivers_backup_*mmddyy*-*hhmmss*.log	Device Package backup log
emdb	Logs related to embedded Oracle database
haevents.log	Unit server high availability events
license_server.log	License server
mvm.log	System restart log
mvmcsh.log	System restart log (units) (for units, indicates if files were properly copied from gateway on unit restart)
nccmDeviceMgr.log	
old (directory)	Logs from last session
older (directory)	Logs from 2 sessions earlier
oldest (directory)	Logs from 3 sessions earlier

Table B-1 Gateway Server Log Files (continued)

Gateway Server Log File	Component
setup_xmp_nccm.log	Change and Configuration management installation log
Log Files Located in /var/adm/cisco/prime-network/logs	
install-log-*xxxxxxxxxx*[1]	Prime Network installation log
uninstall-log-*xxxxxxxxxx*[1]	Prime Network uninstallation log
verbose-*xxxxxxxxxx*[1]	Prime Network installation log (verbose format)
verbose-uninstall-*xxxxxxxxxx*[1]	Prime Network uninstallation log (verbose format)
Other Log Files	
NETWORKHOME/XMP_Platform/logs/ConfigArchive.log	Configuration Management log file
NETWORKHOME/XMP_Platform/logs/JobManager.log	Job Manager log file (for Change and Configuration Management jobs)
NETWORKHOME/XMP_Platform/logs/NEIM.log	Network Element Image Management log file
NETWORKHOME/XMP_Platform/logs/NccmGUI.log	Change and Configuration Management GUI client log file
NETWORKHOME/XMP_Platform/logs/Startup.log	XMP server startup log file
$ORACLE_BASE/ana_logs	Prime Network embedded database log
$FLEXNET_HOME/logs	Prime Network license log (Flexnet and liccontrol)
NETWORKHOME/.replication	Used for ADG gateway geographical redundancy to record local and remote timestamps used by GWSync.
NETWORKHOME/.replication_remote	
NETWORKHOME/.replication_log	Used for ADG gateway geographical redundancy to log when local and remote timestamps are more than 10 minutes apart (and a System event is generated).
NETWORKHOME/oracle_monitoring.log	Used for ADG gateway geographical redundancy to provide information on the Redo-apply log from the standby server.
NETWORKHOME/Main/network-conf-*xxxxx xxxxx*.log[1]	Output of network-conf portion of installation session
NETWORKHOME/Main/ha/logs	Gateway server high availability
NETWORKHOME/Main/mvmcsh.log	Used for debugging purposes
NETWORKHOME/Main/restarts.log	Used for debugging purposes
/var/log/messages	Used for RHCS local gateway redundancy

1. *xxxxxxxxxx* is a random unique identifier.