Log files in System Center Configuration Manager

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In this article

Applies to: System Center Configuration Manager (Current Branch)

In System Center Configuration Manager, client and site server components record process information in individual log files. You can use the information in the log files to help you troubleshoot issues that might occur in your Configuration Manager hierarchy. By default, client and server component logging is enabled in Configuration Manager.

The following sections provide details about the different log files available to you. You can use this information to view and monitor Configuration Manager client and server logs for operation details, and to identify error information that might help you troubleshoot any problems.

- Reporting

- Role-based administration

- Service connection point

- Software updates

- Wake On LAN

- Windows 10 servicing

- Windows Update Agent

- WSUS server

About Configuration Manager log files

Most processes in Configuration Manager write operational information to a log file that is dedicated to that process. The log files are identified by **.log** or **.lo_** file extensions. Configuration Manager writes to a .log file until that log reaches its maximum size. When the log is full, the .log file is copied to a file of the same name but with the .lo_ extension, and the process or component continues to write to the .log file. When the .log file again reaches its maximum size, the .lo_ file is overwritten and the process repeats. Some components establish a log file history by appending a date and time stamp to the log file name and by retaining the .log extension. An exception to the maximum size and use of the .lo_ file is the client for Linux and UNIX. For information about how the client for Linux and UNIX uses log files, see Manage log files in the client for Linux and UNIX in this topic.

To view the logs, use the Configuration Manager log viewer tool CMTrace, located in the \SMSSetup\Tools folder of the Configuration Manager source media. The CMTrace tool is added to all boot images that are added to the Software Library.

Configure logging options by using Configuration Manager Service Manager

In Configuration Manager, you can change where log files are stored, and you can change the log file size.

To modify the size of log files, change the name and location of the log file, or to force multiple components to write to a single log file, do the following steps.

To modify logging for a component

1. In the Configuration Manager console, select **Monitoring**, select **System Status**, and then select either **Site Status** or **Component Status**.

2. On the **Home** tab, in the **Component** group, select **Start**, and then select **Configuration Manager Service Manager**.

3. When Configuration Manager Service Manager opens, connect to the site that you want to manage. If the site that you want to manage isn't shown, select **Site**, select **Connect**, and then enter the name of the site server for the correct site.

4. Expand the site and go to **Components** or **Servers**, depending on where the components that you want to manage are located.

5. In the right pane, select one or more components.

6. On the **Component** menu, select **Logging**.

7. In the **Configuration Manager Component Logging** dialog box, complete the available configuration options for your selection.

8. Select **OK** to save the configuration.

Find Configuration Manager logs

Configuration Manager log files are stored in various locations that depend on the process that creates the log file and on the configuration of your site systems. Because the location of the log on a computer can vary, use the search function to find the relevant log files on your Configuration Manager computers if you need to troubleshoot a specific scenario.

Configuration Manager client logs

The following sections list the log files related to client operations and client installation.

Client operations

The following table lists the log files located on the Configuration Manager client.

Log name	Description
CAS.log	The Content Access service. Maintains the local package cache on the client.
Ccm32BitLauncher.log	Records actions for starting applications on the client marked "run as 32bit".

Log name	Description
CcmEval.log	Records Configuration Manager client status evaluation activities and details for components that are required by the Configuration Manager client.
CcmEvalTask.log	Records the Configuration Manager client status evaluation activities that are initiated by the evaluation scheduled task.
CcmExec.log	Records activities of the client and the SMS Agent Host service. This log file also includes information about enabling and disabling wake-up proxy.
CcmMessaging.log	Records activities related to communication between the client and management points.
CCMNotificationAgent.log	Records activities related to client notification operations.
Ccmperf.log	Records activities related to the maintenance and capture of data related to client performance counters.
CcmRestart.log	Records client service restart activity.
CCMSDKProvider.log	Records activities for the client SDK interfaces.
CertificateMaintenance.log	Maintains certificates for Active Directory Domain Services and management points.
CIDownloader.log	Records details about configuration item definition downloads.
CITaskMgr.log	Records tasks that are initiated for each application and deployment type, such as content download and install or uninstall actions.
ClientAuth.log	Records signing and authentication activity for the client.
ClientIDManagerStartup.log	Creates and maintains the client GUID and identifies tasks performed during client registration and assignment.
ClientLocation.log	Records tasks that are related to client site assignment.

Log name	Description
CMHttpsReadiness.log	Records the results of running the Configuration Manager HTTPS Readiness Assessment Tool. This tool checks whether computers have a public key infrastructure (PKI) client authentication certificate that can be used with Configuration Manager.
CmRcService.log	Records information for the remote control service.
ContentTransferManager.log	Schedules the Background Intelligent Transfer Service (BITS) or Server Message Block (SMB) to download or access packages.
DataTransferService.log	Records all BITS communication for policy or package access.
EndpointProtectionAgent	Records information about the installation of the System Center Endpoint Protection client and the application of antimalware policy to that client.
execmgr.log	Records details about packages and task sequences that run on the client.
ExpressionSolver.log	Records details about enhanced detection methods that are used when verbose or debug logging is turned on.
ExternalEventAgent.log	Records the history of Endpoint Protection malware detection and events related to client status.
FileBITS.log	Records all SMB package access tasks.
FileSystemFile.log	Records the activity of the Windows Management Instrumentation (WMI) provider for software inventory and file collection.
FSPStateMessage.log	Records the activity for state messages that are sent to the fallback status point by the client.
InternetProxy.log	Records the network proxy configuration and use activity for the client.

Log name	Description
InventoryAgent.log	Records activities of hardware inventory, software inventory, and heartbeat discovery actions on the client.
LocationCache.log	Records the activity for location cache use and maintenance for the client.
LocationServices.log	Records the client activity for locating management points, software update points, and distribution points.
MaintenanceCoordinator.log	Records the activity for general maintenance tasks for the client.
Mifprovider.log	Records the activity of the WMI provider for Management Information Format (MIF) files.
mtrmgr.log	Monitors all software metering processes.
PolicyAgent.log	Records requests for policies made by using the Data Transfer Service.
PolicyAgentProvider.log	Records policy changes.
PolicyEvaluator.log	Records details about the evaluation of policies on client computers, including policies from software updates.
PolicyPlatformClient.log	Records the process of remediation and compliance for all providers located in \Program Files\Microsoft Policy Platform, except the file provider.
PolicySdk.log	Records activities for policy system SDK interfaces.
Pwrmgmt.log	Records information about enabling or disabling and configuring the wake-up proxy client settings.
PwrProvider.log	Records the activities of the power management provider (PWRInvProvider) hosted in the WMI service. On all supported versions of Windows, the provider enumerates the current settings on computers during hardware inventory and applies power plan settings.

Log name	Description
SCClient_<*domain*>@<*username*>_1.log	Records the activity in Software Center for the specified user on the client computer.
SCClient_<*domain*>@<*username*>_2.log	Records the historical activity in Software Center for the specified user on the client computer.
Scheduler.log	Records activities of scheduled tasks for all client operations.
SCNotify_<*domain*>@<*username*>_1.log	Records the activity for notifying users about software for the specified user.
SCNotify_<*domain*>@<*username*>_1-<*date_time*>.log	Records the historical information for notifying users about software for the specified user.
setuppolicyevaluator.log	Records configuration and inventory policy creation in WMI.
SleepAgent_<*domain*>@SYSTEM_0.log	The main log file for wake-up proxy.
smscliui.log	Records use of the Configuration Manager client in Control Panel.
SrcUpdateMgr.log	Records activity for installed Windows Installer applications that are updated with current distribution point source locations.
StatusAgent.log	Records status messages that are created by the client components.
SWMTRReportGen.log	Generates a use data report that is collected by the metering agent. This data is logged in Mtrmgr.log.
UserAffinity.log	Records details about user device affinity.
VirtualApp.log	Records information specific to the evaluation of Application Virtualization (App-V) deployment types.
Wedmtrace.log	Records operations related to write filters on Windows Embedded clients.

Log name	Description
wakeprxy-install.log	Records installation information when clients receive the client setting option to turn on wake-up proxy.
wakeprxy-uninstall.log	Records information about uninstalling wake-up proxy when clients receive the client setting option to turn off wake-up proxy, if wake-up proxy was previously turned on.

Client installation log files

The following table lists the log files that contain information related to the installation of the Configuration Manager client.

Log name	Description
ccmsetup.log	Records ccmsetup.exe tasks for client setup, client upgrade, and client removal. Can be used to troubleshoot client installation problems.
ccmsetup-ccmeval.log	Records ccmsetup.exe tasks for client status and remediation.
CcmRepair.log	Records the repair activities of the client agent.
client.msi.log	Records setup tasks performed by client.msi. Can be used to troubleshoot client installation or removal problems.

Client for Linux and UNIX

The Configuration Manager client for Linux and UNIX records information in the following log files.

> 💡 **Tip**
>
> Beginning with clients for Linux and UNIX from Cumulative Update 1, you can use CMTrace to view the log files for the client for Linux and UNIX.

> 🗒 **Note**
>
> When you use the initial release of the client for Linux and UNIX and reference the documentation in this section, replace the following references for each file or process:

- Replace **omiserver.bin** with **nwserver.bin**
  - Replace **omi** with **nanowbem**

Log name	Details
Scxcm.log	The log file for the core service of the Configuration Manager client for Linux and UNIX (ccmexec.bin). This log file contains information about the installation and ongoing operations of ccmexec.bin. By default, this log file is located at **/var/opt/microsoft/scxcm.log** To change the location of the log file, edit **/opt/microsoft/configmgr/etc/scxcm.conf** and change the **PATH** field. You do not need to restart the client computer or service for the change to take effect. You can set the log level to one of four different settings.
Scxcmprovider.log	The log file for the CIM service of the Configuration Manager client for Linux and UNIX (omiserver.bin). This log file contains information about the ongoing operations of nwserver.bin. This log is located at**/var/opt/microsoft/configmgr/scxcmprovider.log** To change the location of the log file, edit **/opt/microsoft/omi/etc/scxcmprovider.conf** and change the **PATH** field. You do not need to restart the client computer or service for the change to take effect. You can set the log level to one of three settings.

Both log files support several levels of logging:

- **scxcm.log**. To change the log level, edit **/opt/microsoft/configmgr/etc/scxcm.conf** and change each instance of the **MODULE** tag to the log level you want:

  - ERROR: Indicates problems that require attention

  - WARNING: Indicates possible problems for client operations

  - INFO: More detailed logging that indicates the status of various events on the client

  - TRACE: Verbose logging that typically is used to diagnose problems

- **scxcmprovider.log**. To change the log level, edit **/opt/microsoft/omi/etc/scxcmprovider.conf** and change each instance of the **MODULE** tag to the log level you want:

  - ERROR: Indicates problems that require attention

  - WARNING: Indicates possible problems for client operations

  - INFO: More detailed logging that indicates the status of various events on the client

Under normal operating conditions, use the ERROR log level. This log level creates the smallest log file. As the log level is increased from ERROR to WARNING, to INFO, and then to TRACE, a larger log file is created as more data is written to the file.

Manage log files for the Linux and UNIX client

The client for Linux and UNIX does not limit the maximum size of the client log files, nor does the client automatically copy the contents of its .log files to another file, such as to a .lo_ file. If you want to control the maximum size of log files, implement a process to manage the log files independent from the Configuration Manager client for Linux and UNIX.

For example, you can use the standard Linux and UNIX command **logrotate** to manage the size and rotation of the client log files. The Configuration Manager client for Linux and UNIX has an interface that enables **logrotate** to signal the client when the log rotation completes, so the client can resume logging to the log file.

For information about **logrotate**, see the documentation for the Linux and UNIX distributions that you use.

Client for Mac computers

The Configuration Manager client for Mac computers records information in the following log files.

Log name	Details
CCMClient- *<date_time>*.log	Records activities that are related to the Mac client operations, including application management, inventory, and error logging. This log file is located in the /Library/Application Support/Microsoft/CCM/Logs folder on the Mac computer.

Log name	Details
CCMAgent- *<date_time>*.log	Records information that is related to client operations, including user logon and logoff operations, and Mac computer activity. This log file is in the ~/Library/Logs folder on the Mac computer.
CCMNotifications- *<date_time>*.log	Records activities that are related to Configuration Manager notifications displayed on the Mac computer. This log file is located in the ~/Library/Logs folder on the Mac computer.
CCMPrefPane- *<date_time>*.log	Records activities related to the Configuration Manager preferences dialog box on the Mac computer, which includes general status and error logging. This log file is located in the ~/Library/Logs folder on the Mac computer.

The log file SMS_DM.log on the site system server also records communication between Mac computers and the management point that is set up for mobile devices and Mac computers.

Configuration Manager site server log files

The following sections list log files that are on the site server or that are related to specific site system roles.

Site server and site system server logs

The following table lists the log files that are on the Configuration Manager site server and site system servers.

Log name	Description	Computer with log file
adctrl.log	Records enrollment processing activity.	Site server
ADForestDisc.log	Records Active Directory Forest Discovery actions.	Site server
ADService.log	Records account creation and security group details in Active Directory.	Site server

Log name	Description	Computer with log file
adsgdis.log	Records Active Directory Group Discovery actions.	Site server
adsysdis.log	Records Active Directory System Discovery actions.	Site server
adusrdis.log	Records Active Directory User Discovery actions.	Site server
ccm.log	Records client push installation activities.	Site server
CertMgr.log	Records certificate activities for intrasite communication.	Site system server
chmgr.log	Records activities of the client health manager.	Site server
Cidm.log	Records changes to the client settings by the Client Install Data Manager (CIDM).	Site server
colleval.log	Records details about when collections are created, changed, and deleted by the Collection Evaluator.	Site server
compmon.log	Records the status of component threads monitored for the site server.	Site system server
compsumm.log	Records Component Status Summarizer tasks.	Site server
ComRegSetup.log	Records the initial installation of COM registration results for a site server.	Site system server
dataldr.log	Records information about the processing of MIF files and hardware inventory in the Configuration Manager database.	Site server
ddm.log	Records activities of the discovery data manager.	Site server
despool.log	Records incoming site-to-site communication transfers.	Site server

Log name	Description	Computer with log file
distmgr.log	Records details about package creation, compression, delta replication, and information updates.	Site server
EPCtrlMgr.log	Records information about the syncing of malware threat information from the Endpoint Protection site system role server with the Configuration Manager database.	Site server
EPMgr.log	Records the status of the Endpoint Protection site system role.	Site system server
EPSetup.log	Provides information about the installation of the Endpoint Protection site system role.	Site system server
EnrollSrv.log	Records activities of the enrollment service process.	Site system server
EnrollWeb.log	Records activities of the enrollment website process.	Site system server
fspmgr.log	Records activities of the fallback status point site system role.	Site system server
hman.log	Records information about site configuration changes, and about the publishing of site information in Active Directory Domain Services.	Site server
Inboxast.log	Records the files that are moved from the management point to the corresponding INBOXES folder on the site server.	Site server
inboxmgr.log	Records file transfer activities between inbox folders.	Site server
inboxmon.log	Records the processing of inbox files and performance counter updates.	Site server
invproc.log	Records the forwarding of MIF files from a secondary site to its parent site.	Site server

Log name	Description	Computer with log file
migmctrl.log	Records information for Migration actions that involve migration jobs, shared distribution points, and distribution point upgrades.	Top-level site in the Configuration Manager hierarchy, and each child primary site. In a multi-primary site hierarchy, use the log file that is created at the central administration site.
mpcontrol.log	Records the registration of the management point with Windows Internet Name Service (WINS). Records the availability of the management point every 10 minutes.	Site system server
mpfdm.log	Records the actions of the management point component that moves client files to the corresponding INBOXES folder on the site server.	Site system server
mpMSI.log	Records details about the management point installation.	Site server
MPSetup.log	Records the management point installation wrapper process.	Site server
netdisc.log	Records Network Discovery actions.	Site server
ntsvrdis.log	Records the discovery activity of site system servers.	Site server
Objreplmgr	Records the processing of object change notifications for replication.	Site server
offermgr.log	Records advertisement updates.	Site server
offersum.log	Records the summarization of deployment status messages.	Site server

Log name	Description	Computer with log file
OfflineServicingMgr.log	Records the activities of applying updates to operating system image files.	Site server
outboxmon.log	Records the processing of outbox files and performance counter updates.	Site server
PerfSetup.log	Records the results of the installation of performance counters.	Site system server
PkgXferMgr.log	Records the actions of the SMS_Executive component that is responsible for sending content from a primary site to a remote distribution point.	Site server
policypv.log	Records updates to the client policies to reflect changes to client settings or deployments.	Primary site server
rcmctrl.log	Records the activities of database replication between sites in the hierarchy.	Site server
replmgr.log	Records the replication of files between the site server components and the Scheduler component.	Site server
ResourceExplorer.log	Records errors, warnings, and information about running Resource Explorer.	Computer that runs the Configuration Manager console
ruleengine.log	Records details about automatic deployment rules for the identification, content download, and software update group and deployment creation.	Site server
schedule.log	Records details about site-to-site job and file replication.	Site server
sender.log	Records the files that transfer by file-based replication between sites.	Site server

Log name	Description	Computer with log file
sinvproc.log	Records information about the processing of software inventory data to the site database.	Site server
sitecomp.log	Records details about the maintenance of the installed site components on all site system servers in the site.	Site server
sitectrl.log	Records site setting changes made to site control objects in the database.	Site server
sitestat.log	Records the availability and disk space monitoring process of all site systems.	Site server
SmsAdminUI.log	Records Configuration Manager console activity.	Computer that runs the Configuration Manager console
SMSAWEBSVCSetup.log	Records the installation activities of the Application Catalog web service.	Site system server
smsbkup.log	Records output from the site backup process.	Site server
smsdbmon.log	Records database changes.	Site server
SMSENROLLSRVSetup.log	Records the installation activities of the enrollment web service.	Site system server
SMSENROLLWEBSetup.log	Records the installation activities of the enrollment website.	Site system server
smsexec.log	Records the processing of all site server component threads.	Site server or site system server
SMSFSPSetup.log	Records messages generated by the installation of a fallback status point.	Site system server
SMSPORTALWEBSetup.log	Records the installation activities of the Application Catalog website.	Site system server

Log name	Description	Computer with log file
SMSProv.log	Records WMI provider access to the site database.	Computer with the SMS Provider
srsrpMSI.log	Records detailed results of the reporting point installation process from the MSI output.	Site system server
srsrpsetup.log	Records results of the reporting point installation process.	Site system server
statesys.log	Records the processing of state system messages.	Site server
statmgr.log	Records the writing of all status messages to the database.	Site server
swmproc.log	Records the processing of metering files and settings.	Site server

Site server installation log files

The following table lists the log files that contain information related to site installation.

Log name	Description	Computer with log file
ConfigMgrPrereq.log	Records prerequisite component evaluation and installation activities.	Site server
ConfigMgrSetup.log	Records detailed output from the site server setup.	Site Server
ConfigMgrSetupWizard.log	Records information related to activity in the Setup Wizard.	Site Server
SMS_BOOTSTRAP.log	Records information about the progress of launching the secondary site installation process. Details of the actual setup process are contained in ConfigMgrSetup.log.	Site Server

Log name	Description	Computer with log file
smstsvc.log	Records information about the installation, use, and removal of a Windows service that is used to test network connectivity and permissions between servers, using the computer account of the server that initiates the connection.	Site server and site system server

Fallback status point log files

The following table lists the log files that contain information related to the fallback status point.

Log name	Description	Computer with log file
FspIsapi	Records details about communications to the fallback status point from mobile device legacy clients and client computers.	Site system server
fspMSI.log	Records messages generated by the installation of a fallback status point.	Site system server
fspmgr.log	Records activities of the fallback status point site system role.	Site system server

Management point log files

The following table lists the log files that contain information related to the management point.

Log name	Description	Computer with log file
CcmIsapi.log	Records client messaging activity on the endpoint.	Site system server
MP_CliReg.log	Records the client registration activity processed by the management point.	Site system server

Log name	Description	Computer with log file
MP_Ddr.log	Records the conversion of XML.ddr records from clients, and then copies them to the site server.	Site system server
MP_Framework.log	Records the activities of the core management point and client framework components.	Site system server
MP_GetAuth.log	Records client authorization activity.	Site system server
MP_GetPolicy.log	Records policy request activity from client computers.	Site system server
MP_Hinv.log	Records details about the conversion of XML hardware inventory records from clients and the copy of those files to the site server.	Site system server
MP_Location.log	Records location request and reply activity from clients.	Site system server
MP_OOBMgr.log	Records the management point activities related to receiving a OTP from a client.	Site system server
MP_Policy.log	Records policy communication.	Site system server
MP_Relay.log	Records the transfer of files that are collected from the client.	Site system server
MP_Retry.log	Records hardware inventory retry processes.	Site system server

Log name	Description	Computer with log file
MP_Sinv.log	Records details about the conversion of XML software inventory records from clients and the copy of those files to the site server.	Site system server
MP_SinvCollFile.log	Records details about file collection.	Site system server
MP_Status.log	Records details about the conversion of XML.svf status message files from clients and the copy of those files to the site server.	Site system server
mpcontrol.log	Records the registration of the management point with WINS. Records the availability of the management point every 10 minutes.	Site server
mpfdm.log	Records the actions of the management point component that moves client files to the corresponding INBOXES folder on the site server.	Site system server
mpMSI.log	Records details about the management point installation.	Site server
MPSetup.log	Records the management point installation wrapper process.	Site server

Software update point log files

The following table lists the log files that contain information related to the software update point.

Log name	Description	Computer with log file
objreplmgr.log	Records details about the replication of software updates notification files from a parent site to child sites.	Site server
PatchDownloader.log	Records details about the process of downloading software updates from the update source to the download destination on the site server.	Computer that hosts the Configuration Manager console from which downloads are initiated

Log name	Description	Computer with log file
ruleengine.log	Records details about automatic deployment rules for the identification, content download, and software update group and deployment creation.	Site server
SUPSetup.log	Records details about the software update point installation. When the software update point installation completes, **Installation was successful** is written to this log file.	Site system server
WCM.log	Records details about the software update point configuration and connections to the WSUS server for subscribed update categories, classifications, and languages.	Site server that connects to the WSUS server
WSUSCtrl.log	Records details about the configuration, database connectivity, and health of the WSUS server for the site.	Site system server
wsyncmgr.log	Records details about the software updates sync process.	Site system server
WUSSyncXML.log	Records details about the Inventory Tool for the Microsoft Updates sync process.	Client computer configured as the sync host for the Inventory Tool for Microsoft Updates

Log files for Configuration Manager functionality

The following sections list log files related to Configuration Manager functions.

Application management

The following table lists the log files that contain information related to application management.

Log name	Description	Computer with log file

Log name	Description	Computer with log file
AppIntentEval.log	Records details about the current and intended state of applications, their applicability, whether requirements were met, deployment types, and dependencies.	Client
AppDiscovery.log	Records details about the discovery or detection of applications on client computers.	Client
AppEnforce.log	Records details about enforcement actions (install and uninstall) taken for applications on the client.	Client
awebsctl.log	Records monitoring activities for the Application Catalog web service point site system role.	Site system server
awebsvcMSI.log	Records detailed installation information for the Application Catalog web service point site system role.	Site system server
Ccmsdkprovider.log	Records the activities of the application management SDK.	Client
colleval.log	Records details about when collections are created, changed, and deleted by the Collection Evaluator.	Site system server
ConfigMgrSoftwareCatalog.log	Records the activity of the Application Catalog, which includes its use of Silverlight.	Client
portlctl.log	Records the monitoring activities for the Application Catalog website point site system role.	Site system server
portlwebMSI.log	Records the MSI installation activity for the Application Catalog website role.	Site system server

Log name	Description	Computer with log file
PrestageContent.log	Records details about the use of the ExtractContent.exe tool on a remote, prestaged distribution point. This tool extracts content that has been exported to a file.	Site system server
ServicePortalWebService.log	Records the activity of the Application Catalog web service.	Site system server
ServicePortalWebSite.log	Records the activity of the Application Catalog website.	Site system server
SMSdpmon.log	Records details about the distribution point health monitoring scheduled task that is configured on a distribution point.	Site server
SoftwareCatalogUpdateEndpoint.log	Records activities for managing the URL for the Application Catalog shown in Software Center.	Client
SoftwareCenterSystemTasks.log	Records activities related to Software Center prerequisite component validation.	Client

The following table lists the log files that contain information related to deploying packages and programs.

Log name	Description	Computer with log file
colleval.log	Records details about when collections are created, changed, and deleted by the Collection Evaluator.	Site server
execmgr.log	Records details about packages and task sequences that run.	Client

Asset intelligence

The following table lists the log files that contain information related to Asset Intelligence.

Log Name	Description	Computer with log file
AssetAdvisor.log	Records the activities of Asset Intelligence inventory actions.	Client
aikbmgr.log	Records details about the processing of XML files from the inbox for updating the Asset Intelligence catalog.	Site server
AIUpdateSvc.log	Records the interaction of the Asset Intelligence sync point with System Center Online (SCO), the online web service.	Site system server
AIUSMSI.log	Records details about the installation of the Asset Intelligence sync point site system role.	Site system server
AIUSSetup.log	Records details about the installation of the Asset Intelligence sync point site system role.	Site system server
ManagedProvider.log	Records details about discovering software with an associated software identification tag. Also records activities related to hardware inventory.	Site system server
MVLSImport.log	Records details about the processing of imported licensing files.	Site system server

Backup and recovery

The following table lists log files that contain information related to backup and recovery actions, including site resets, and changes to the SMS Provider.

Log name	Description	Computer with log file
ConfigMgrSetup.log	Records information about setup and recovery tasks when Configuration Manager recovers a site from backup.	Site server
Smsbkup.log	Records details about the site backup activity.	Site server

Log name	Description	Computer with log file
smssqlbkup.log	Records output from the site database backup process when SQL Server is installed on a server that is not the site server.	Site database server
Smswriter.log	Records information about the state of the Configuration Manager VSS writer that is used by the backup process.	Site server

Certificate enrollment

The following table lists the Configuration Manager log files that contain information related to certificate enrollment. Certificate enrollment uses the certificate registration point and the Configuration Manager Policy Module on the server that is running the Network Device Enrollment Service.

Log name	Description	Computer with log file
Crp.log	Records enrollment activities.	Certificate registration point
Crpctrl.log	Records the operational health of the certificate registration point.	Certificate registration point
Crpsetup.log	Records details about the installation and configuration of the certificate registration point.	Certificate registration point
Crpmsi.log	Records details about the installation and configuration of the certificate registration point.	Certificate registration point
NDESPlugin.log	Records challenge verification and certificate enrollment activities.	Configuration Manager Policy Module and the Network Device Enrollment Service

In addition to the Configuration Manager log files, review the Windows Application logs in Event Viewer on the server running the Network Device Enrollment Service and the server hosting the certificate registration point. For example, look for messages from the **NetworkDeviceEnrollmentService** source. You can also use the following log files:

- IIS log files for Network Device Enrollment Service:
  <path>\inetpub\logs\LogFiles\W3SVC1

- IIS log files for the certificate registration point:
  <path>\inetpub\logs\LogFiles\W3SVC1

- Network Device Enrollment Policy log file: **mscep.log**

  > 🗐 **Note**
  >
  > This file is located in the folder for the Network Device Enrollment Service account profile, for example, in C:\Users\SCEPSvc. For more information about how to enable logging for the Network Device Enrollment Service, see the Enable Logging section in the Network Device Enrollment Service (NDES) in Active Directory Certificate Services (AD CS) article on the TechNet wiki.

Client notification

The following table lists the log files that contain information related to client notification.

Log name	Description	Computer with log file
bgbmgr.log	Records details about site server activities related to client notification tasks and processing online and task status files.	Site server
BGBServer.log	Records the activities of the notification server, such as client-server communication and pushing tasks to clients. Also records information about the generation of online and task status files to be sent to the site server.	Management point
BgbSetup.log	Records the activities of the notification server installation wrapper process during installation and uninstallation.	Management point
bgbisapiMSI.log	Records details about the notification server installation and uninstallation.	Management point
BgbHttpProxy.log	Records the activities of the notification HTTP proxy as it relays the messages of clients using HTTP to and from the notification server.	Client

Log name	Description	Computer with log file
CcmNotificationAgent.log	Records the activities of the notification agent, such as client-server communication and information about tasks received and dispatched to other client agents.	Client

Cloud management gateway

The following table lists the log files that contain information related to the cloud management gateway.

Log name	Description
CloudMgr.log	Records details about deploying the cloud management gateway service, o associated with the service. You can configure the logging level be editing the registry **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\SMS\COMPONENTS\SI level**
CMGSetup.log or CMG-*RoleInstanceID*-CMGSetup.log[1]	Records details about the 2nd phase of the cloud management gateway de You can configure the logging level using the setting **Trace level** (**Informat portal\Cloud services configuration** tab.
CMGHttpHandler.log or CMG-*RoleInstanceID*-CMGHttpHandler.log[1]	Records details about the cloud management gateway http handler binding You can configure the logging level using the setting **Trace level** (**Informat portal\Cloud services configuration** tab.

CMGService.log or CMG-*RoleInstanceID*-CMGService.log[1]	Records details about the cloud management gateway service core compor You can configure the logging level using the setting **Trace level** (**Informat** **portal\Cloud services configuration** tab.
SMS_Cloud_ProxyConnector.log	Records details about setting up connections between the cloud manageme management gateway connection point.

[1] These are local Configuration Manager log files that cloud service manager sync from Azure storage every 5 minutes. The cloud management gateway will push logs to Azure storage every 5 minutes. so the maximum delay will be 10 minutes. Verbose switches will affect both local and remote logs.

- For troubleshooting deployments, use **CloudMgr.log** and **CMGSetup.log**
- For troubleshooting service health, use **CMGService.log** and **SMS_Cloud_ProxyConnector.log**.
- For troubleshooting client traffic, use **CMGHttpHandler.log**, **CMGService.log**, and **SMS_Cloud_ProxyConnector.log**.

Compliance settings and company resource access

The following table lists the log files that contain information related to compliance settings and company resource access.

Log name	Description	Computer with log file
CIAgent.log	Records details about the process of remediation and compliance for compliance settings, software updates, and application management.	Client
CITaskManager.log	Records information about configuration item task scheduling.	Client
DCMAgent.log	Records high-level information about the evaluation, conflict reporting, and remediation of configuration items and applications.	Client

Log name	Description	Computer with log file
DCMReporting.log	Records information about reporting policy platform results into state messages for configuration items.	Client
DcmWmiProvider.log	Records information about reading configuration item synclets from WMI.	Client

Configuration Manager console

The following table lists the log files that contain information related to the Configuration Manager console.

Log name	Description	Computer with log file
ConfigMgrAdminUISetup.log	Records the installation of the Configuration Manager console.	Computer that runs the Configuration Manager console
SmsAdminUI.log	Records information about the operation of the Configuration Manager console.	Computer that runs the Configuration Manager console
Smsprov.log	Records activities performed by the SMS Provider. Configuration Manager console activities use the SMS Provider.	Site server or site system server

Content management

The following table lists the log files that contain information related to content management.

Log name	Description	Computer with log file
CloudDP-<guid>.log	Records details for a specific cloud-based distribution point, including information about storage and content access.	Site system server

Log name	Description	Computer with log file
CloudMgr.log	Records details about content provisioning, collecting storage and bandwidth statistics, and administrator-initiated actions to stop or start the cloud service that runs a cloud-based distribution point.	Site system server
DataTransferService.log	Records all BITS communication for policy or package access. This log also is used for content management by pull-distribution points.	Computer that is configured as a pull-distribution point
PullDP.log	Records details about content that the pull-distribution point transfers from source distribution points.	Computer that is configured as a pull-distribution point
PrestageContent.log	Records the details about the use of the ExtractContent.exe tool on a remote, prestaged distribution point. This tool extracts content that has been exported to a file.	Site system role
SMSdpmon.log	Records details about distribution point health monitoring scheduled tasks that are configured on a distribution point.	Site system role
smsdpprov.log	Records details about the extraction of compressed files received from a primary site. This log is generated by the WMI provider of the remote distribution point.	Distribution point computer that is not colocated with the site server

Discovery

The following table lists the log files that contain information related to Discovery.

Log name	Description	Computer with log file
adsgdis.log	Records Active Directory Security Group Discovery actions.	Site server
adsysdis.log	Records Active Directory System Discovery actions.	Site server

Log name	Description	Computer with log file
adusrdis.log	Records Active Directory User Discovery actions.	Site server
ADForestDisc.Log	Records Active Directory Forest Discovery actions.	Site server
ddm.log	Records activities of the discovery data manager.	Site server
InventoryAgent.log	Records activities of hardware inventory, software inventory, and heartbeat discovery actions on the client.	Client
netdisc.log	Records Network Discovery actions.	Site server

Endpoint Protection

The following table lists the log files that contain information related to Endpoint Protection.

Log name	Description	Computer with log file
EndpointProtectionAgent.log	Records details about the installation of the Endpoint Protection client and the application of antimalware policy to that client.	Client
EPCtrlMgr.log	Records details about the syncing of malware threat information from the Endpoint Protection role server with the Configuration Manager database.	Site system server
EPMgr.log	Monitors the status of the Endpoint Protection site system role.	Site system server
EPSetup.log	Provides information about the installation of the Endpoint Protection site system role.	Site system server

Extensions

The following table lists the log files that contain information related to extensions.

Log name	Description	Computer with log file
AdminUI.ExtensionInstaller.log	Records information about the download of extensions from Microsoft, and the installation and uninstallation of all extensions.	Computer that runs the Configuration Manager console
FeatureExtensionInstaller.log	Records information about the installation and removal of individual extensions when they are enabled or disabled in the Configuration Manager console.	Computer that runs the Configuration Manager console
SmsAdminUI.log	Records Configuration Manager console activity.	Computer that runs the Configuration Manager console

Inventory

The following table lists the log files that contain information related to processing inventory data.

Log name	Description	Computer with log file
dataldr.log	Records information about the processing of MIF files and hardware inventory in the Configuration Manager database.	Site server
invproc.log	Records the forwarding of MIF files from a secondary site to its parent site.	Secondary site server
sinvproc.log	Records information about the processing of software inventory data to the site database.	Site server

Metering

The following table lists the log files that contain information related to metering.

Log name	Description	Computer with log file
mtrmgr.log	Monitors all software metering processes.	Site server

Migration

The following table lists the log files that contain information related to migration.

Log name	Description	Computer with log file
migmctrl.log	Records information about migration actions that involve migration jobs, shared distribution points, and distribution point upgrades.	Top-level site in the Configuration Manager hierarchy, and each child primary site. In a multi-primary site hierarchy, use the log file created at the central administration site.

Mobile devices

The following sections list the log files that contain information related to managing mobile devices.

Enrollment

The following table lists logs that contain information related to mobile device enrollment.

Log name	Description	Computer with log file
DMPRP.log	Records communication between management points that are enabled for mobile devices and the management point endpoints.	Site system server
dmpmsi.log	Records the Windows Installer data for the configuration of a management point that is enabled for mobile devices.	Site system server
DMPSetup.log	Records the configuration of the management point when it is enabled for mobile devices.	Site system server

Log name	Description	Computer with log file
enrollsrvMSI.log	Records the Windows Installer data for the configuration of an enrollment point.	Site system server
enrollmentweb.log	Records communication between mobile devices and the enrollment proxy point.	Site system server
enrollwebMSI.log	Records the Windows Installer data for the configuration of an enrollment proxy point.	Site system server
enrollmentservice.log	Records communication between an enrollment proxy point and an enrollment point.	Site system server
SMS_DM.log	Records communication between mobile devices, Mac computers, and the management point that is enabled for mobile devices and Mac computers.	Site system server

Exchange Server Connector

The following logs contain information related to the Exchange Server Connector.

Log name	Description	Computer with log file
easdisc.log	Records the activities and the status of the Exchange Server connector.	Site server

Mobile device legacy

The following table lists logs that contain information related to the mobile device legacy client.

Log name	Description	Computer with log file

Log name	Description	Computer with log file
DmCertEnroll.log	Records details about certificate enrollment data on mobile device legacy clients.	Client
DMCertResp.htm	Records the HTML response from the certificate server when the mobile device legacy client enroller program requests a PKI certificate.	Client
DmClientHealth.log	Records the GUIDs of all mobile device legacy clients that communicate with the management point that is enabled for mobile devices.	Site system server
DmClientRegistration.log	Records registration requests and responses to and from mobile device legacy clients.	Site system server
DmClientSetup.log	Records client setup data for mobile device legacy clients.	Client
DmClientXfer.log	Records client transfer data for mobile device legacy clients and for ActiveSync deployments.	Client
DmCommonInstaller.log	Records client transfer file installation for configuring mobile device legacy client transfer files.	Client
DmInstaller.log	Records whether DMInstaller correctly calls DmClientSetup, and whether DmClientSetup exits with success or failure for mobile device legacy clients.	Client
DmpDatastore.log	Records all the site database connections and queries made by the management point that is enabled for mobile devices.	Site system server
DmpDiscovery.log	Records all the discovery data from the mobile device legacy clients on the management point that is enabled for mobile devices.	Site system server
DmpHardware.log	Records hardware inventory data from mobile device legacy clients on the management point that is enabled for mobile devices.	Site system server

Log name	Description	Computer with log file
DmpIsapi.log	Records mobile device legacy client communication with a management point that is enabled for mobile devices.	Site system server
dmpmsi.log	Records the Windows Installer data for the configuration of a management point that is enabled for mobile devices.	Site system server
DMPSetup.log	Records the configuration of the management point when it is enabled for mobile devices.	Site system server
DmpSoftware.log	Records software distribution data from mobile device legacy clients on a management point that is enabled for mobile devices.	Site system server
DmpStatus.log	Records status messages data from mobile device clients on a management point that is enabled for mobile devices.	Site system server
DmSvc.log	Records client communication from mobile device legacy clients with a management point that is enabled for mobile devices.	Client
FspIsapi.log	Records details about communications to the fallback status point from mobile device legacy clients and client computers.	Site system server

Operating system deployment

The following table lists the log files that contain information related to operating system deployment.

Log name	Description	Computer with log file
CAS.log	Records details when distribution points are found for referenced content.	Client

Log name	Description	Computer with log file
ccmsetup.log	Records ccmsetup tasks for client setup, client upgrade, and client removal. Can be used to troubleshoot client installation problems.	Client
CreateTSMedia.log	Records details for task sequence media creation.	Computer that runs the Configuration Manager console
DeployToVhd.log	Records details about the Virtual Hard Disk (VHD) creation and modification process.	Computer that runs the Configuration Manager console
Dism.log	Records driver installation actions or update application actions for offline servicing.	Site system server
Distmgr.log	Records details about the configuration of enabling a distribution point for Preboot Execution Environment (PXE).	Site system server
DriverCatalog.log	Records details about device drivers that have been imported into the driver catalog.	Site system server
mcsisapi.log	Records information for multicast package transfer and client request responses.	Site system server
mcsexec.log	Records health check, namespace, session creation, and certificate check actions.	Site system server
mcsmgr.log	Records changes to configuration, security mode, and availability.	Site system server
mcsprv.log	Records multicast provider interaction with Windows Deployment Services (WDS).	Site system server
MCSSetup.log	Records details about multicast server role installation.	Site system server
MCSMSI.log	Records details about multicast server role installation.	Site system server

Log name	Description	Computer with log file
Mcsperf.log	Records details about multicast performance counter updates.	Site system server
MP_ClientIDManager.log	Records management point responses to the client ID requests task sequences initiated from PXE or boot media.	Site system server
MP_DriverManager.log	Records management point responses to Auto Apply Driver task sequence action requests.	Site system server
OfflineServicingMgr.log	Records details of offline servicing schedules and update apply actions on operating system Windows Imaging Format (WIM) files.	Site system server
Setupact.log	Records details about Windows Sysprep and setup logs.	Client
Setupapi.log	Records details about Windows Sysprep and setup logs.	Client
Setuperr.log	Records details about Windows Sysprep and setup logs.	Client
smpisapi.log	Records details about the client state capture and restore actions, and threshold information.	Client
Smpmgr.log	Records details about the results of state migration point health checks and configuration changes.	Site system server
smpmsi.log	Records installation and configuration details about the state migration point.	Site system server
smpperf.log	Records the state migration point performance counter updates.	Site system server
smspxe.log	Records details about the responses to clients that use PXE boot, and details about the expansion of boot images and boot files.	Site system server

Log name	Description	Computer with log file
smssmpsetup.log	Records installation and configuration details about the state migration point.	Site system server
Smsts.log	Records task sequence activities.	Client
TSAgent.log	Records the outcome of task sequence dependencies before starting a task sequence.	Client
TaskSequenceProvider.log	Records details about task sequences when they are imported, exported, or edited.	Site system server
loadstate.log	Records details about the User State Migration Tool (USMT) and restoring user state data.	Client
scanstate.log	Records details about the User State Migration Tool (USMT) and capturing user state data.	Client

Power management

The following table lists the log files that contain information related to power management.

Log name	Description	Computer with log file
pwrmgmt.log	Records details about power management activities on the client computer, including monitoring and the enforcement of settings by the Power Management Client Agent.	Client

Remote control

The following table lists the log files that contain information related to remote control.

Log name	Description	Computer with log file
CMRcViewer.log	Records details about the activity of the remote control viewer.	In the %temp% folder on the computer that runs the remote control viewer

Reporting

The following table lists the Configuration Manager log files that contain information related to reporting.

Log name	Description	Computer with log file
srsrp.log	Records information about the activity and status of the reporting services point.	Site system server
srsrpMSI.log	Records detailed results of the reporting services point installation process from the MSI output.	Site system server
srsrpsetup.log	Records results of the reporting services point installation process.	Site system server

Role-based administration

The following table lists the log files that contain information related to managing role-based administration.

Log name	Description	Computer with log file
hman.log	Records information about site configuration changes and the publishing of site information to Active Directory Domain Services.	Site server
SMSProv.log	Records WMI provider access to the site database.	Computer with the SMS Provider

Service connection point

The following table lists the log files that contain information related to the service connection point.

Log name	Description	Computer with log file
CertMgr.log	Records certificate and proxy account information.	Site server

Log name	Description	Computer with log file
CollEval.log	Records details about when collections are created, changed, and deleted by the Collection Evaluator.	Primary site and central administration site
Cloudusersync.log	Records license enablement for users.	Computer with the service connection point
Dataldr.log	Records information about the processing of MIF files.	Site server
ddm.log	Records activities of the discovery data manager.	Site server
Distmgr.log	Records details about content distribution requests.	Top-level site server
Dmpdownloader.log	Records details about downloads from Microsoft Intune.	Computer with the service connection point
Dmpuploader.log	Records details related to uploading database changes to Microsoft Intune.	Computer with the service connection point
hman.log	Records information about message forwarding.	Site server
objreplmgr.log	Records the processing of policy and assignment.	Primary site server
PolicyPV.log	Records policy generation of all policies.	Site server
outgoingcontentmanager.log	Records content uploaded to Microsoft Intune.	Computer with the service connection point
Sitecomp.log	Records details of service connection point installation.	Site server

Log name	Description	Computer with log file
SmsAdminUI.log	Records Configuration Manager console activity.	Computer that runs the Configuration Manager console
Smsprov.log	Records activities performed by the SMS Provider. Configuration Manager console activities use the SMS Provider.	Computer with the SMS Provider
SrvBoot.log	Records details about the service connection point installer service.	Computer with the service connection point
Statesys.log	Records the processing of mobile device management messages.	Primary site and central administration site

Software updates

The following table lists the log files that contain information related to software updates.

Log name	Description	Computer with log file
ccmperf.log	Records activities related to the maintenance and capture of data related to client performance counters.	Client
PatchDownloader.log	Records details about the process of downloading software updates from the update source to the download destination on the site server.	Computer that hosts the Configuration Manager console from which downloads are initiated
PolicyEvaluator.log	Records details about the evaluation of policies on client computers, including policies from software updates.	Client

Log name	Description	Computer with log file
RebootCoordinator.log	Records details about the coordination of system restarts on client computers after software update installations.	Client
ScanAgent.log	Records details about scan requests for software updates, the WSUS location, and related actions.	Client
SdmAgent.log	Records details about the tracking of remediation and compliance. However, the software updates log file, Updateshandler.log, provides more informative details about installing the software updates that are required for compliance. This log file is shared with compliance settings.	Client
ServiceWindowManager.log	Records details about the evaluation of maintenance windows.	Client
SmsWusHandler.log	Records details about the scan process for the Inventory Tool for Microsoft Updates.	Client
StateMessage.log	Records details about software update state messages that are created and sent to the management point.	Client
SUPSetup.log	Records details about the software update point installation. When the software update point installation completes, **Installation was successful** is written to this log file.	Site system server
UpdatesDeployment.log	Records details about deployments on the client, including software update activation, evaluation, and enforcement. Verbose logging shows additional information about the interaction with the client user interface.	Client
UpdatesHandler.log	Records details about software update compliance scanning and about the download and installation of software updates on the client.	Client

Log name	Description	Computer with log file
UpdatesStore.log	Records details about compliance status for the software updates that were assessed during the compliance scan cycle.	Client
WCM.log	Records details about software update point configurations and connections to the WSUS server for subscribed update categories, classifications, and languages.	Site server
WSUSCtrl.log	Records details about the configuration, database connectivity, and health of the WSUS server for the site.	Site system server
wsyncmgr.log	Records details about the software update sync process.	Site server
WUAHandler.log	Records details about the Windows Update Agent on the client when it searches for software updates.	Client

Wake On LAN

The following table lists the log files that contain information related to using Wake On LAN.

> 🗒 **Note**
>
> When you supplement Wake On LAN by using wake-up proxy, this activity is logged on the client. For example, see CcmExec.log and SleepAgent_*<domain>*@SYSTEM_0.log in the Client operations section of this topic.

Log name	Description	Computer with log file
wolcmgr.log	Records details about which clients need to be sent wake-up packets, the number of wake-up packets sent, and the number of wake-up packets retried.	Site server
wolmgr.log	Records details about wake-up procedures, such as when to wake up deployments that are configured for Wake On LAN.	Site server

Windows 10 servicing

The following table lists the log files that contain information related to Windows 10 servicing.

Log name	Description	Computer with log file
ccmperf.log	Records activities related to the maintenance and capture of data related to client performance counters.	Client
CcmRepair.log	Records the repair activities of the client agent.	Client
PatchDownloader.log	Records details about the process of downloading software updates from the update source to the download destination on the site server.	Computer that hosts the Configuration Manager console from which downloads are initiated
PolicyEvaluator.log	Records details about the evaluation of policies on client computers, including policies from software updates.	Client
RebootCoordinator.log	Records details about the coordination of system restarts on client computers after software update installations.	Client
ScanAgent.log	Records details about scan requests for software updates, the WSUS location, and related actions.	Client
SdmAgent.log	Records details about the tracking of remediation and compliance. However, the software updates log file, UpdatesHandler.log, provides more informative details about installing the software updates that are required for compliance. This log file is shared with compliance settings.	Client
ServiceWindowManager.log	Records details about the evaluation of maintenance windows.	Client

Log name	Description	Computer with log file
setupact.log	Primary log file for most errors that occur during the Windows installation process. The log file is located in the %windir%\$Windows.~BT\sources\panther folder.	Client
SmsWusHandler.log	Records details about the scan process for the Inventory Tool for Microsoft Updates.	Client
StateMessage.log	Records details about software updates state messages that are created and sent to the management point.	Client
SUPSetup.log	Records details about the software update point installation. When the software update point installation completes, **Installation was successful** is written to this log file.	Site system server
UpdatesDeployment.log	Records details about deployments on the client, including software update activation, evaluation, and enforcement. Verbose logging shows additional information about the interaction with the client user interface.	Client
Updateshandler.log	Records details about software update compliance scanning and about the download and installation of software updates on the client.	Client
UpdatesStore.log	Records details about compliance status for the software updates that were assessed during the compliance scan cycle.	Client
WCM.log	Records details about software update point configurations and connections to the WSUS server for subscribed update categories, classifications, and languages.	Site server
WSUSCtrl.log	Records details about the configuration, database connectivity, and health of the WSUS server for the site.	Site system server

Log name	Description	Computer with log file
wsyncmgr.log	Records details about the software update sync process.	Site server
WUAHandler.log	Records details about the Windows Update Agent on the client when it searches for software updates.	Client

Windows Update Agent

The following table lists the log files that contain information related to the Windows Update Agent.

Log name	Description	Computer with log file
WindowsUpdate.log	Records details about when the Windows Update Agent connects to the WSUS server and retrieves the software updates for compliance assessment, and whether there are updates to the agent components.	Client

WSUS server

The following table lists the log files that contain information related to the WSUS server.

Log name	Description	Computer with log file
Change.log	Records details about WSUS server database information that has changed.	WSUS server
SoftwareDistribution.log	Records details about the software updates that are synced from the configured update source to the WSUS server database.	WSUS server