

# VMware AirWatch Logging Guide

Managing logging for your Workspace ONE UEM deployment

Workspace ONE UEM v9.7

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# Chapter 1:

# Workspace ONE UEM Logging Overview

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# Logging Guide Overview

This documentation provides guidance on the logging functions available for your deployment of the VMware Workspace ONE™ UEM solution.

Every on-premises deployment of Workspace ONE UEM is unique and has distinct requirements. Your deployment of Workspace ONE UEM may not use all of these logs.

## Core Components

Explore and implement logging for the core components of your Workspace ONE UEM deployment.

For more information, see:

- [Console Logging on page 6](#)
- [Device Services and Self-Service Portal Logging on page 8](#)
- [API Logging on page 10](#)
- [AWCM Logging on page 11](#)

## Peripheral Components

Explore and implement logging for peripheral components that you may have integrated into your Workspace ONE UEM deployment.

For more information, see [Peripheral Component Logging on page 13](#).

## Device-Side Agent Logs

Explore and implement logging for end-user devices running the AirWatch Agent.

For more information, see [Device-Side AirWatch Agent Logs on page 22](#).

## Miscellaneous Logs

Explore and implement additional logs to troubleshoot and improve your Workspace ONE UEM deployment.

For more information, see [Miscellaneous Logs on page 27](#).

## Core Component Verbose and Targeted Logging

Increase the level of logging to capture additional verbose log entries for Workspace ONE UEM core components.

For more information, see [Core Component Verbose and Targeted Logging on page 29](#).

## Peripheral Component Verbose Logging

Increase the level of logging to capture additional verbose log entries for Workspace ONE UEM peripheral components.

For more information, see [Peripheral Component Verbose Logging on page 31](#).

## Logging Best Practices

Explore and implement best practices for capturing logs for your Workspace ONE UEM deployment.

For more information, see [Capture Logs on page 36](#) and [Logging Examples on page 36](#).

# Chapter 2:

## Core Component Logging

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## Console Logging

The following table lists the logging functions available for the Console component. Please note that the API service is installed by default. All Logs are located in the /AirWatch/Logs folder unless otherwise specified.

Folder	Log Name	Description
AirWatch API	Aw.WebApi.Help.log	Contains API help page information and errors to various API help sub-pages.
AirWatch API	AW_Core_Api.log	Contains information on calls made to the API endpoint for available API commands.
AirWatch API	AW_MAM_Api.log	Contains information relating to specifically the /API/MAM endpoint.
AirWatch API	AW_MCM_Api.log	Contains information relating to specifically the /API/MCM endpoint.
AirWatch API	AW_MDM_Api.log	Contains information relating to specifically the /API/MDM endpoint.
AirWatch API	AW_MEM_Api.log	Contains information relating to specifically the /API/MEM endpoint.
AirWatch API	WebServiceapi.log	Contains information on numerous service nodes and reports for listening status, endpoint URL, and additional details. This log is not utilized in the latest release.
AirWatch Services	AWServices.log	Contains information on the AirWatch SOAP API.
GooglePlaySearch	Google_Marketplace.log	Contains information on Google Play integration including showing application search history.
IIS>W3SVC1	u_ex####.log	Contains history of IIS web endpoints accessed and response codes delivered (Ex: /AirWatch & /Enroll).
Inetpub > Logs > FailedReqLogFiles	Fr####.xml	Contains failed IIS request log traces. You must enable this log as it is disabled by default.
Services	AgentBuilder.log	Contains information on rugged agent (CAB) creation for side load enrollment.
Services	AirWatchGemAgent.log	Contains information on the GEM License assessing service and its back-end connections.
Services	ApiWorkflowService.log	This service log cites processed device commands from the REST API.
Services	AW.Meg.Queue.Service.log	Contains information on the email policy updates for SEG or Powershell integration, associated MSMQ reader information, SQL connection errors, and encryption ciphers.

Folder	Log Name	Description
Services	AW.IntegrationService.log	Contains information on all AW third-party integrations such as Apple School Manager APIs, VPP, and App Scan.
Services	BackgroundProcessorServiceLogFile.txt	Contains information on multiple different jobs that are processed in the background asynchronously such as console exports or report generation.
Services	BulkProcessingServiceLogFile.txt	Contains information on bulk commands such as SDK, certificates, APNS messages, DEP APIs, command queues, users, user groups, profiles, and apps.
Services	ContentDeliveryService.log	Contains information on content delivery and relay server communication for product provisioning.
Services	ChangeEventQueue.log	Contains information on event log entries, the batch save of those logs, syslog configuration loads, and policy updates for AW Tunnel.
Services	DirectorySyncServiceLogFile.txt	Contains information on directory user and group syncs such as member lists and LDAP mapping and definitions.
Services	MessagingServiceLog.txt	Contains information on notifications sent to the various 3rd party messaging services (APNs, GCM, WNS).
Services	PolicyEngine.log	Contains information on the device policies queue and products information related to user, OG and device compliance. It will also include information on product provisioning processing and delivery.
Services	SchedulerService.log	Contains information on the various jobs that are executed by the scheduler service such as Automatic sync, VPP user invite sync, bulk notification push, and AD sync triggers. For an exhaustive list please see Groups & Settings > All Settings > Admin > Scheduler.
Services	SmartGroupServiceLogFile.txt	Contains information relating to reconciliation of smart group mappings resulting from enrollments, changes in device or user state, and reports the resulting change for smart groups.
Services	SMSService.log	Contains information on batch SMS sent to devices.
Services	ComplianceService.txt	Logs Compliance service data
Services	ChangeEventOutboundQueueService.txt	Sends event notifications from source component to a central location (Ex: Syslog)
Web console	WebLogFile.txt	Contains information on the console user interface.
TargetedLogging	####Airwatch.log	Contains information on targeted logging enabled devices.

## Device Services and Self-Service Portal Logging

The following table lists the logging functions available for the Device Services component. Please note that the API service is installed by default. All Logs are located in the /AirWatch/Logs folder unless otherwise specified.

Folder	Log Name	Description
AirWatch API	Aw.WebApi.Help.log	Contains historical API help page information and errors to various API help sub-pages.
AirWatch API	AW_Core_Api.log	Contains information on calls made to the API endpoint for available API commands.
AirWatch API	AW_MAM_Api.log	Contains information relating to specifically the /API/MAM endpoint.
AirWatch API	AW_MCM_Api.log	Contains information relating to specifically the /API/MCM endpoint.
AirWatch API	AW_MDM_Api.log	Contains information relating to specifically the /API/MDM endpoint.
AirWatch API	AW_MEM_Api.log	Contains information relating to specifically the /API/MEM endpoint.
AirWatch Services	AWServices.log	Contains information on the AirWatch services including logging level and service details. This log also contains SOAP API related information.
AppCatalog	AppCatalogLogFile.txt	Contains information related to the application catalog such as application assignment, device requests when loading the app catalog, and user authentication.
DeviceManagement	DeviceManagement.log	Contains information on the early stages of enrollment including token or group ID validation, restriction checks, and authentication.
DeviceServices	DeviceServicesLog.txt	Contains information related to all device communications with AirWatch.
GooglePlaySearch	Google_Marketplace.log	Contains information on Google Play integration.
IIS>W3SVC1	u_ex####.log	Contains history of IIS web endpoints accessed and response codes delivered (Ex: /DeviceServices & /DeviceManagement).
Inetpub > Logs > FailedReqLogFiles	Fr####.xml	Contains failed IIS request log traces. This log must be enabled as it is turned off by default.
MyDevice	WebLogfile.txt	Contains information on actions taken within the self-service portal.
Services	APIWorkflowService.log	Contains information on the API such as logging level, MSMQ reader errors and SQL connection errors.



Folder	Log Name	Description
Services	AW.IntegrationService.log	Contains information on all AW third-party integrations such as Apple School Manager APIs, VPP, and App Scan.
Services	AW.Meg.Queue.Service.log	Contains information on the email policy updates for SEG or Powershell integration, associated MSMQ reader information, SQL connection errors, and encryption ciphers.
Services	BulkProcessingServiceLogFile.txt	Contains information on bulk commands related to SDK, certificates, APNS messages, DEP APIs, command queues, users, user groups, profiles, and apps.
Services	ChangeEventQueue.log	Contains information on event log entries, the batch save of those logs, syslog configuration loads, and policy updates for AW Tunnel.
Services	InterrogatorQueueService.log	Contains information related to processed device samples for all platforms to be updated to the DB such as Application and Profile samples from device.
Services	InterrogatorService.log	Contains information on events related to the interrogator service. This log is not utilized in the latest release.
Services	LogManagerService.log	Contains information on processing Log Manager data from Windows Mobile devices.
Services	MasterQueueService.log	Contains information on the device samples received from Apple devices before they are sent to their respective sample queues for processing by the Interrogator Queue Monitor Service.
Services	MessagingServiceLog.txt	Contains information on sends and response times to the various third-party messaging services (APNs, GCM, WNS).
Services	MyDevice.log	Shows SPP logons and SSP related errors.
Services	ProvisioningPackageServicelogfile.txt	Logs provisioning package information for auto enrollment of applicable Windows 10 device
Services	ChangeEventOutboundQueueService.txt	Sends event notifications from source component to a central location (Ex: Syslog)
TargetedLogging	####Airwatch.log	Contains information on targeted logging enabled devices.

## API Logging

The following table lists the logging functions available for the API component. All Logs are located in the /AirWatch/Logs folder unless otherwise specified.

Folder	Log Name	Description
AirWatch API	Aw.WebApi.Help.log	Contains historical API help page information and errors to various API help sub-pages.
AirWatch API	AW_Core_Api.log	Contains information on calls made to the API endpoint for available API commands.
AirWatch API	AW_MAM_Api.log	Contains information relating to specifically the /API/MAM endpoint.
AirWatch API	AW_MCM_Api.log	Contains information relating to specifically the /API/MCM endpoint.
AirWatch API	AW_MDM_Api.log	Contains information relating to specifically the /API/MDM endpoint.
AirWatch API	AW_MEM_Api.log	Contains information relating to specifically the /API/MEM endpoint.
AirWatch API	WebServiceapi.log	Contains information numerous service nodes and reports on listening status, endpoint URL, cached status, and additional details.
AirWatch Services	AWServices.log	Contains information on the Workspace ONE UEM services including logging level and service details. This log also contains SOAP API-related information.
IIS>W3SVC1	u_ex####.log	Contains history of IIS web endpoints accessed and response codes delivered (Ex: /ActiveSyncIntegrationServiceEndPoint).
Inetpub > Logs > FailedReqLogFiles	Fr####.xml	Contains failed IIS request log traces. This log must be enabled as it is turned off by default.
Services	APIWorkflowService.log	Contains information on handing bulk requests from the API server such as bulk commands to devices.
Services	AW.IntegrationService.log	Contains information on all AW third-party integrations such as Apple School Manager APIs, VPP, and App Scan.
Services	AW.Meg.Queue.Service.log	Contains information on the email policy updates for SEG or Powershell integration, associated MSMQ reader information, SQL connection errors, and encryption ciphers.
Services	BulkProcessingServiceLogFile.txt	Contains information on bulk commands related to SDK, certificates, APNS messages, DEP APIs, command queues, users, user groups, profiles, and apps.

Folder	Log Name	Description
Services	ChangeEventQueue.log	Contains information on event log entries, the batch save of those logs, and syslog configuration loads.
Services	MessagingServiceLog.txt	Contains information on sends and response times to the various third-party messaging services (APNs, GCM, WNS).
Services	ChangeEventOutboundQueueService.txt	Log file for entering information into the MSMQ to be sent to central outbound component (Ex: Syslog)
Services	ChangeQueueMonitor.txt	Log file for execution of MSMQ to outbound component (Ex: syslog)

## AWCM Logging

The following table lists the logging functions available for the AWCM component. All Logs are located in the /AirWatch/Logs folder unless otherwise specified.

Folder	Log Name	Description
AWCM	AirWatchDiagnosticService.log	Contains information on AWCM diagnostic sample processing and saving.
AWCM	Awcm.log	Contains information on AWCM such as status, history, properties, and additional sub-services.
AWCM	AWCMservice.log	Contains log information on AWCM Java service wrapper.

# Chapter 3:

# Peripheral Component Logging

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## Peripheral Component Logging

Explore and implement logging for peripheral components that you may have integrated into your Workspace ONE UEM deployment.

All Logs are located in the /AirWatch/Logs folder unless otherwise specified.

### VMware Enterprise Systems Connector (ACC)

Folder	Log Name	Description
CloudConnector	AirWatchDiagnosticService.log	Contains information on ACC diagnostic sample processing and saving.
CloudConnector	CloudConnector.log	Contains information about ACC Services such as directory authentication, group syncs, communication with CA/PKI, PowerShell, syslog, and additional ACC services.

### Classic Secure Email Gateway (SEG)

Folder	Log Name	Description
EASListener	Username.log or EASIdentifier.log	Contains information on a single device's transactions with the SEG and forwarded responses to Exchange. You must enable this targeted log as it is not enabled by default.
EASListener	AW.EAS.Web.Listener.Log	Contains information on all device transactions with the SEG and forwarded responses to exchange.
SEG Console	AW.EAS.Web.Log	Contains information on back end service communication as well as updated device policy records.
SEG Setup	AW.EAS.Setup.log	Contains log information on initial configuration and changes to SEG setup configurations.
Services	AirWatchDiagnositcServiceSEG.log	Contains information on SEG diagnostic sample processing and saving.
Services	AW.EAS.IntegrationService.log	Contains information on SEG device policy API integration and MEM Configuration service communication.
Services	AirWatch.Kerberos.AuthService.log	Contains information on Kerberos token authentication.
Inetpub > Logs > W3SVC1	U_ex####.log	Contains history of IIS endpoints accessed and response codes delivered (Ex: /Microsoft-Server-Activesync).

### Secure Email Gateway v2 (SEGV2)

Folder	Log Name	Description
SecureEmailGateway	App.log	Contains information on device transactions and an analysis of each request passed through SEGV2.

Folder	Log Name	Description
SecureEmailGateway	http-transaction.log	Contains information on overview of each email request passed through SEGv2 (Transaction summary).
SecureEmailGateway	Policy-update.txt	Contains information on the policy cache and any real-time or bulk policy updates.
SecureEmailGateway	Active-sync-payload-reporting.txt	Contains information on console transaction reporting including details on EAS request info posted to console.
SecureEmailGateway	Non-compliant-devices.txt	Contains information on the blocked transactions and detail analysis of those refused requests.

## Email Notification Service

Folder	Log Name	Description
/	AW.Mail.Notification.Service.log	Contains information on ENS communication such as log subscriptions to the email server, transactions with API servers, notification status for user/device, and communications to CNS.

## Email Notification Service v2

Folder	Log Name	Description
/	ENS.log	ENS web application logging
/	ReSubscriptionMechanism.log	Logs for the subscription service that runs monitoring user's subscriptions and sending out notifications to have clients re-register
/	RSAKeysTracker.log	Logs for service that monitors the key repository in the DB and triggers creations of additional keys when necessary.

## VMware Tunnel

Folder	Log Name	Description
AirWatch Tunnel Proxy	AirWatchDiagnosticService.log	Contains information on Tunnel diagnostic sample processing and saving.
AirWatch Tunnel Proxy	Proxy.log (Relay)	Contains information on Tunnel Proxy such as whitelisted devices entries, authentication, and certificate status from requesting device to AWCM.
AirWatch Tunnel Proxy	Proxy.log (Endpoint)	Contains information on web requests through the proxy and to the listening endpoint.
/var/log/airwatch/vpnd/	vpn.log	Contains information on VPN communications such as whitelisting devices, communication with API/AWCM, and health check status.

Folder	Log Name	Description
/var/log/airwatch/vpnd/	tunnel_init.log	Contains information on Tunnel configuration and initialization.
/var/log/airwatch/vpnd/	Access_tunnel.log	Contains information on Tunnel access such as user/device information and application details with respective sites accessed.

### AirWatch Content Gateway

Folder	Log Name	Description
ContentGateway	CGContent.log (Relay)	Contains information on Content Gateway access such as authentication, trust relationship establishment, and repository structure services.
ContentGateway	CGContent.log (Endpoint)	Contains information on repository folder actions and user impersonation.

### Unified Access Gateway

Folder	Log Name	Description
/Opt/VMware/Gateway/Logs	*.ZIP	Collection of log files on the UAG appliance.
/var/log/airwatch/tunnel/vpnd	Tunnel-init.log	Logging for VMware Tunnel component
/var/log/airwatch/tunnel/vpnd	Tunnel.log	Logging for VMware Tunnel component
/var/log.airwatch/proxy	Proxy.log	Logging for the VMware Tunnel proxy component
/var/log/airwatch/appliance-agent	Appliance-agent.log	Logging for the VMware Tunnel appliance agent

### Remote File Storage

Folder	Log Name	Description
RemoteFileStorage	Rfs-web.log	Contains information on RFS such as certificates, tokens, files, and storage file paths.

### Content Rendering Engine

Folder	Log Name	Description
/var/log/airwatch/cre/	Cre.log	Contains information on CRE such as Hazelcast, render requests, and associated manifests.

### VMware Identity Manager Service

Folder	Log Name	Description
/.../opt/vmware/horizon/workspace/logs	Accesscontrol-service.log	Access control service logging which handles role based access control for vIDM admins

Folder	Log Name	Description
/.../opt/vmware/horizon/workspace/logs	Admin-Tool.log	Contains outputs from scripts called as admin tools.
/.../opt/vmware/horizon/workspace/logs	Analytics-service.log	Log for analytics service that managed audit events, reports, and search functionality.
/.../opt/vmware/horizon/workspace/logs	Audit.log	Contains information on services and servlets including the API and elastic search functionalities.
/.../opt/vmware/horizon/workspace/logs	Calculator-deadletters.log	Contains information on anything that was not calculated.
/.../opt/vmware/horizon/workspace/logs	Calc-v2.log	Contains information on when the calculators were run. Calculators are responsible for completing entitlements of users/groups to app in the background.
/.../opt/vmware/horizon/workspace/logs	Catalina.log	Contains information on the Tomcat service. Date indicated roll-over.
/.../opt/vmware/horizon/workspace/logs	Cert-proxy.log	Contains certificate proxy information used by Android Mobile SSO. Date indicates roll-over.
/.../opt/vmware/horizon/workspace/logs	Certproxy-catalina.log	Stderr /stdout for cert proxy process.
/.../opt/vmware/horizon/workspace/logs	Certproxy-service.YYYY-MM-DD.log	Apache commons daemon wrapper logs for starting cert-proxy (date appended).
/.../opt/vmware/horizon/workspace/logs	Configurator.log	Contains information related to the configurator admin UI that runs on port 8443.
/.../opt/vmware/horizon/workspace/logs	Connector.log	Contains information related to the Identity Manager Enterprise System Connector.
/.../opt/vmware/horizon/workspace/logs	Connector-sync.log	Connector synchronization logs.
/.../opt/vmware/horizon/workspace/logs	Db-sql-and-tx.log	SQL and transaction database logs for IDM.
/.../opt/vmware/horizon/workspace/logs	Entitlement-calc-logic.log	Contains information on an additional background calculator specifically the entitlement calculations.
/.../opt/vmware/horizon/workspace/logs	Entitlement-calc-stats.log	Contains information on an additional background calculator specifically the entitlement calculations.
/.../opt/vmware/horizon/workspace/logs	Greenbox_web.log	Contains information of all Workspace ONE service side events.
/.../opt/vmware/horizon/workspace/logs	Group-calc-logic.log	Contains information on an additional background calculator specifically the group entitlement calculations.



Folder	Log Name	Description
/.../opt/vmware/horizon/workspace/logs	Group-calc-stats.log	Contains information on an additional background calculator specifically the group entitlement calculations.
/.../opt/vmware/horizon/workspace/logs	Horizon.log	Contains information related to the Identity Manager.
/.../opt/vmware/horizon/workspace/logs	Horizon-ceip.log	Contains information related to horizon and the device communications back to the service.
/.../opt/vmware/horizon/workspace/logs	Horizon-persist.log	Contains information on the DB Schema.
/.../opt/vmware/horizon/workspace/logs	Horizon-sockjs.log	Contains information of web socket communications between service and connector.
/.../opt/vmware/horizon/workspace/logs	Host-manager.log	Contains information on the Tomcat service. Date indicates roll-over. This log is not utilized in the latest release.
/.../opt/vmware/horizon/workspace/logs	Idm-service.YYYY-MM-DD.log	Apache commons daemon wrapper logs for starting IDM (date appended).
/.../opt/vmware/horizon/workspace/logs	Localhost.log	Contains information on the Spring framework. Date indicates roll-over.
/.../opt/vmware/horizon/workspace/logs	logGroupprov-calc-stats.log	Contains information on an additional background calculator specifically the group provisioning calculations.
/.../opt/vmware/horizon/workspace/logs	Manager.log	Contains information on the Tomcat service. Date indicates roll-over. This log is not utilized in the latest release.
/.../opt/vmware/horizon/workspace/logs	Tcruntime-instance.log	Contains information on the Tomcat service. Date indicates roll-over. This log is not utilized in the latest release.
/.../opt/vmware/horizon/workspace/logs	vmwarecertproxy-stderr.log	Contains information on the certificate proxy component. This log is not utilized in the latest release.
/.../opt/vmware/horizon/workspace/logs	Workspace.log	Contains information related to the service including startup errors.
/.../opt/vmware/horizon/workspace/logs	Wrapper.log	Contains information on the Tomcat Wrapper service. This log is not utilized in the latest release.
/.../opt/vmware/horizon/workspace/logs	Wsadmin.log	Contains information on the admin servlet.
/Airwatch/VMwareIdentityManager	Idm-installer.log	Contains information on install history and status of the Identity Manager service for Windows.

## VMware Identity Manager Connector (ESC)

Folder	Log Name	Description
/VMware/IDMConnector/	Idm-connector-installer.log	Contains information on install history and status of the Identity Manager Connector Service.
/Opt/.../Workspace/Logs	Configurator.log	Contains information on the configurator admin UI that runs on port 8443.
/Opt/.../Workspace/Logs	Connector.log	Contains information related to the Identity Manager connector.
/Opt/.../Workspace/Logs	Tcruntime-instance.log	Contains information on the Tomcat service. Date indicates roll-over.
/Opt/.../Workspace/Logs	Workspace.log	Contains information on service such as startup errors.
/Opt/.../Workspace/Logs	Wrapper.log	Contains information on the Tomcat Wrapper service. Date indicates roll-over.
/Opt/.../Workspace/Logs	Catalina.log	Contains information on the Tomcat service. Date indicates roll-over.
/Opt/.../Workspace/Logs	Localhost.log	Contains information on the Spring framework. Date indicates roll-over.

## Workspace One Intelligence

Folder	Log Name	Description
/Airwatch/ETLService/Logs	Etl.log (YYYY-MM-DD)	Contains log information for WorkSpaceONE Intelligence Connector (ETL). Contains health status information and information around successful/failure events.

## Adaptiva

Folder	Log Name	Description
/Program Files (x86)/adaptiva/AdaptivaServer/Logs/workflowlogs/	vmwareGetActivatedClientList_NNNN_VVV	File that contains the adaptive client registrations.
/Program Files (x86)/adaptiva/AdaptivaServer/Logs	Adaptiva.txt	Generic log for Adaptiva communications.
/Program Files (x86)/adaptiva/AdaptivaServer/Logs	AdaptivaNativeUtils.txt	Log for Adaptive native utilities.
/Program Files (x86)/adaptiva/AdaptivaServer/Logs	AdaptivaService.txt	Log for Adaptiva service related messages.
/Program Files (x86)/adaptiva/AdaptivaServer/Logs	AdaptivaProtocolTransport	Network related logging for Adaptiva
/Program Files (x86)/adaptiva/AdaptivaServer/Logs	MessageMonitor	Generic Adaptiva Log.
/Program Files (x86)/adaptiva/AdaptivaServer/Logs	Ntlmauth	Adaptiva NTLM authentication log.

Folder	Log Name	Description
/Program Files (x86)/adaptiva/AdaptivaServer/Logs	sqlMonitor	Log file for Adpativa SQL communications.
/Program Files (x86)/adaptiva/AdaptivaServer/Logs	VCDiff	Generic Adaptiva Log.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	Adaptive.err	File that will contain errors. If all is working properly this will be blank.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	Adaptiva	Generic log for Adaptiva communications.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	AdaptivaNativeUtils	Log for Adaptive native utilities.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	AdaptivaService	Log for Adaptiva service related messages.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	AdaptivaServiceRestart	Log for Adaptiva service restarts.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	AdaptiveProtocolTransport	Network related logging for Adaptiva
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	Jvmhook	Generic Adaptiva Log.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	MessagingMonitor	Generic Adaptiva Log.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	OneSiteProvider	Generic Adaptiva Log.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	OneSiteProvider64	Generic Adaptiva Log.
/Program Files (x86)/adaptiva/AdaptivaClient/Logs	sqlMonitor	Log file for Adpativa SQL communications.

## Memcached

Folder	Log Name	Description
/var/log/memcached-monitor/	Memcached-{mm-dd-yyyy}	Logs useful statistics around the Memcached solution

## Dell Factory Provisioning Service

Folder	Log Name	Description
/Airwatch/Factory Provisioning Services/Services/Logs/	AW.FactoryProvisioning.Service.log	This file has any diagnostics (info, warnings, errors) messages generated during the runtime of the Factory Provisioning Windows Service which is the service performing the PPKG packages generation requested by admins.

Folder	Log Name	Description
/AirWatch/Factory Provisioning Services/WebSite/Logs/	AW.FactoryProvisioning.Api.log	This file has any diagnostics (info, warnings, errors) messages generated during the runtime of the Factory Provisioning Windows API which is the service accepting the PPKG packages generation requests by admins through different front-end components like the AW Console.

### VMware Workspace ONE Airlift

Folder	Log Name	Description
C:\program files\vmware\vmware airlift\logs	Airlift-YYYYMMDD.log}	Contains all AirLift information on calls made to the API endpoint of Workspace ONE UEM and Microsoft ConfigManager.

# Chapter 4:

## Device-Side Agent Logging

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## Device-Side AirWatch Agent Logs

Explore and implement logging for end-user devices running the AirWatch Agent. Some logging may require additional components or requirements to gather.

### iOS Devices

Method	Log Name	Description
Xcode	*.rtf	Contains information related to all device side transactions including MDM, Enrollment, access, and application run history.
Agent App w/ Debug enabled in SDK	Agentlog####.txt	Contains information on system messages and stack traces when devices throw errors that are written from applications with the Log class.
Crash Logs	*.crash	Contains information on application crashes that is stored on iOS devices
Enhanced log targeting (Apple)	N/A	For more information, see the Apple documentation on Profiles and Logs available on <a href="https://developer.apple.com">developer.apple.com</a> .

### macOS Devices

Method	Log Name	Description
Console.app	*.txt	Contains information related to all device side transactions including MDM, enrollment, access, and application run history.
/Library/Application Support/Airwatch/Data/Logs	AirWatchDaemon.log	Contains information needed to analyze issues with core macOS agent functionalities such as products, CAs, and agent profiles.
/Library/Application Support/Airwatch/Data/Logs/	AirWatchAgent.log	Contains information on the UI/UX functionality with the macOS Agent.
/Library/Application Support/Airwatch/Data/Logs	AirWatchAWCM.log	Contains information on the macOS Agent to AWCM connectivity.
/Library/Application Support/Airwatch/Data/Logs	AirWatchRemoteManagement.log	Contains information related to remote management communications.
/var/log/	System.log	Contains information on the mdmd and other OS specific activities. Not used for macOS 10.12+.
Sudo Log collect (/var/log/)	System.log	Contains information on the mdmd and other OS specific activities. Used only for macOS 10.12+

Method	Log Name	Description
/var/log/	Install.log	Contains information on package installations including Munki
Enhanced log targeting (Apple)	N/A	For more information, see the Apple documentation on Profiles and Logs available on developer.apple.com.
/Library/Application Support/AirWatch/Data/Munki/managed installs/logs/	ManagedSoftwareUpdate.log	Main Munki logging file. Which will contain information pertaining to application deployment of .dmg MAC OS applications.
/Library/Application Support/Airwatch/Data/Munki/munki_repo/munkiData/	Munki_data.plist	Munki Data Cache
/Library/Preferences/	AirWatchManagedInstalls.plist	Munki preference file
/Library/Application Support/AirWatch/Data/Munki/Managed Installs/	InstallInfo.plist	Munki install list
/Library/Application Support/AirWatch/Data/Munki/Managed Installs/	ManagedInstallReport.plist	Munki managed install report
/Library/Application Support/AirWatch/Data	AppStatuses_WS1.plist	WS1 app install status percentages

## Android Devices

Method	Log Name	Description
ADB/Android Studio/RXLogger	*.txt	Contains information on app level traffic such as system messages and stack traces.
Agent Debug Logs	*.txt	Contains information on app level traffic such as system messages and stack traces filtered to the AirWatch Agent and PackageManager.
DumpState Logs	*.txt	Contains information collected from Android Debug Bridge (ADB) without active connection to device and used for historical logging.

## Android Enterprise Wipe Logs

If an Android device in your deployment is enterprise-wiped, additional logs are available.

To capture the latest set of logs, tap the AirWatch Agent welcome screen header on the affected device 5 times. The device opens any available email app on the device where you can send the additional logging to administrators or support to help with investigation.

This logging function requires a minimum version of AirWatch Agent for Android v8.1.

## Windows Phone Devices

Method	Log Name	Description
Field Medic	*.etl	Contains information on enrollment and most other MDM related functions.

## Windows Desktop Devices

Method	Log Name	Description
Windows Event Viewer	*.evtx	Contains information on enrollment using Work Access and MDM functions that do not require the Protection Agent (Samples, Profiles, Commands).
/AirWatch/UnifiedAgent/Logs/	AWprocessCommands.Log	Contains information on installs that utilize the Protection Agent such as encryption and product provisioning.
/AirWatch/UnifiedAgent/Logs/	AWLPC.Log	Contains information related to the communications between the Protection Agent and AirWatch
/AirWatch/UnifiedAgent/Logs/	NativeEnrollment.log	Contains information around the Agent-Based enrollment method.
/AirWatch/UnifiedAgent/Logs/	PowershellExecute.log	Contains information on PowerShell commands that are run via product provisioning.
/AirWatch/UnifiedAgent/Logs/	AwclClient.log	Contains information on communications between AWCM client and AirWatch.
/AirWatch/UnifiedAgent/Logs/	TaskScheduler.log	Contains information on the Task Scheduler's local enforcement of policies.
/AirWatch/UnifiedAgent/Logs/	SSOCommunicationHandler.log	Contains information on post enrollment SSO for AirWatch Agent.
/AirWatch/UnifiedAgent/Logs/	RMSservice.log	Contains information around the Agent-Based enrollment method.

## Windows Rugged Devices

Method	Log Name	Description
/AirWatch/Logs	Awregisterdevice	Contains information on device registration that occurs during the enrollment process.
/AirWatch/Logs	AWService.log	Contains information on communications between the device and AirWatch including managed beacon and interrogator samples.
/AirWatch/Logs	AWApplicationManager.log	Contains information related to product provisioning.
/AirWatch/Logs	AWProcessCommands.log	Contains information for commands sent from AirWatch such as profiles, applications, and product provisioning.
/AirWatch/Logs	FusionwlanSetup	Contains information on fusion Wi-Fi profile changes.



Method	Log Name	Description
Root	AW_Setup	Contains information on the AWMasterSetup such as agent install and uninstall processing on a device.
/AirWatch/Logs	Awcmclient	Contains information on communications between AWCM client and AirWatch.
/AirWatch/Logs	Awapplaucher	Contains information on the application launcher executable. Only present if the App Launcher utility is assigned and utilized by device.
/AirWatch/Logs	Awapplyprofile	Contains information on agent settings SML file which is generated during enrollment.
/AirWatch/Logs	emScript	Contains information on the native system performance.

# Chapter 5:

## Miscellaneous Logging

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## Miscellaneous Logs

Explore and implement additional logs to troubleshoot and improve your Workspace ONE UEM deployment. Some logging may require additional components or requirements to gather.

### Application Wrapping Logs

Method/Folder	Log Name	Description
App Wrapping Server	AppWrap.log	Contains information on status and results of application wrapping attempts.
Android ADB	*.txt	Contains information on app level traffic such as system messages and stack traces.
iOS Xcode	*.rtf	Contains information related to all device side transactions such as MDM, enrollment, and application run history.

### Third-Party SDK App Logs

Method/Folder	Log Name	Description
Android ADB	*.txt	Contains real time logs for SDK application logging from developer run application.
iOS Xcode	*.rtf	Contains real time logs for SDK application logging from developer run application.
Console (Apps&Book\Analytics\App Logs)	AppLog####.txt	Contains information from third-party SDK application integrations.

# Chapter 6:

## Verbose and Targeted Logging

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## Core Component Verbose and Targeted Logging

Increase the level of logging to capture additional verbose log entries for Workspace ONE UEM core components.

To manage logging levels, see [Manage the Core Component Logging Level on page 30](#).

To implement targeted verbose logging, see [Enable Targeted Logging on page 30](#).

### Error Log Example

Workspace ONE UEM error logs use the following format:

```
2017/06/21 19:07:12.2431 EX-DS1112 11aaabbbccc-dddee-1111-22ff-06gggg7777773
[0000000-0000000]4 (14)5 Error6
AirWatch.CloudConnector.Client.AccServiceClient.SendRequest7 Received a Failure
message from AWC: Destination not reachable at this moment8
```

### Info Log Example

Workspace ONE UEM info logs use the following format:

```
2017/09/07 14:46:57.8521 EX-DS1112 ca9562a7-c87c-4c3b-a1e1-ca35a88555ab3
[0000052-0000000]4 (20)5 Info6
WanderingWiFi.AirWatch.Console.Web.Controllers.HomeController7 Method:
WanderingWiFi.AirWatch.Console.Web.Controllers.HomeController.Index;
LocationGroupID: 7; UserID: 52; Username: TEST_USER; Parameters: <N/A>;
69eddd96-9a81-47e9-a78a-dd20c845426b
```

### Log Example Key

Every log entry contains the following information:

1. Date and time for the log entry.
2. Server identifier for the log entry.
3. Server communication thread identifier for the log entry.
4. Device or user identifier for the log entry.
5. VMware AirWatch internal code for the log entry.
6. Logging level for the log entry.
7. Associated service of the log entry.
8. Log message for the log entry.

## Manage the Core Component Logging Level

The Workspace ONE UEM console controls the logging level for AirWatch core components. Change these logging levels when you are troubleshooting issues with core components.

The two logging levels provide different levels of detail. When you are not troubleshooting a component, set the logging level to **Disabled** to reduce use of hardware resources.

To change any of the core component logging:

1. In the console, navigate to **Groups & Settings > All Settings > Admin > Diagnostics > Logging**.
2. Select any component that needs an increased logging level. Set the component logging to **Enabled**.

**Important:** After you finish troubleshooting, revert the logging level back to **Disabled** to preserve hardware resources.

## Enable Targeted Logging

The AirWatch Console can target verbose logging for specific devices. Targeted logs assist in gathering all necessary logging when troubleshooting a particular device or set of devices.

Enable device-based or settings-based targeted logging, depending on the size of the device pool you need to access.

### Enable Device-Based Targeted Logging

Device-based targeted logging is ideal for logging exercises on a small number of devices.

1. Navigate to **Devices > List View**. Select the device you want to target. From the **Device Details** screen, navigate to **More > Targeted Logging**.
2. Select **Create New Log**.
3. Select the time frame you desire and select **Start**.
4. Once the specified time frame has elapsed, navigate to the configured file path and open the log.

To see the configured file path, navigate to **Groups & Settings > All Settings > Admin > Diagnostics > Logging > Targeted Logging File Path**.

### Enable Settings-Based Targeted Logging

Device-based targeted logging is ideal for logging exercises on a large number of devices.

1. Navigate to **Groups & Settings > All Settings > Admin > Diagnostics > Logging**.
2. Select **Enabled** for the **Targeted Logging** setting, and provide a comma-separated list of Device IDs.
3. Once log gathering has concluded, reset **Targeted Logging** to **Disabled**.

## Peripheral Component Verbose Logging

Each peripheral component handles logging differently from the core components handled by the Workspace ONE UEM console. You must access each component server to change the logging level.

**Important:** After you finished troubleshooting, revert the logging level back to Disabled to preserve hardware resources.

### VMware Enterprise Systems Connector (ACC)

To change the logging level for the ACC service:

1. Access the CloudConnector.exe.config file contained in the /Airwatch/CloudConnector/Bank# folder.
2. Make sure you compare the two bank folders to ensure you are editing the one with the most recent modified dates.
3. Change the level from error to verbose in the line <loggingConfiguration> line.
4. Allow the services a few minutes to pick up the logging change.

### Classic Secure Email Gateway (SEG)

#### Change the Logging Level for the EASListener Service

1. Access the SEG service page contained at <http://localhost/segsetup>.
2. Select **Verbose** from the logging level box.
3. Select **Save**.
4. Wait a few minutes for the EASListener to pick up the logging change.

#### Change the Logging Level for the EASIntegration Service

1. Access the AW.EAS.IntegrationService.exe.config file contained in the /AW.Eas.IntegrationService folder.
2. Change the level from **Error** to **Verbose** in the <loggingConfiguration> line.
3. Wait a few minutes for the service to pick up the logging change.

#### Change the Logging Level for the SEG Setup Service

1. Access the Web.config file contained in the /AW.Eas.Setup folder.
2. Change the level from **Error** to **Verbose** in the <loggingConfiguration> line.
3. Wait a few minutes for the service to pick up the logging change.

#### Change the Logging Level for the Kerberos Service

1. Access the AirWatch.Kerberos.AuthService.exe.config file contained in the /AirWatch.KCD.AuthService folder.
2. Change the level from **Error** to **Verbose** in the <loggingConfiguration> line.
3. Wait a few minutes for the service to pick up the logging change.

### Enable SEG Targeted Logging for Devices

1. Access the admin page at <https://localhost/SEGconsole/>.
2. Under **Targeted Logging**, select **EAS device Identifier** or **Username** and select **Add Target**.
3. Select **Enter Additional Details** and **Add Target** if you need additional information.
4. Select **Start Targeted Logging** to begin.
5. Once reproduction is complete, select **Stop Targeted Logging**. By default, logs are written to the **Logs > EASListener** Folder.

### Secure Email Gateway v2 (SEGV2)

To change the logging levels for the SEGV2 service:

1. Access the admin page at <https://localhost:44444/seg/admin>.
2. In the **Logging** tab, change the logging level from **Error** to **Debug**.
3. Wait a few minutes for the service to pick up the logging change.

### Email Notification Service

To change the logging levels for the integration service:

1. Access the `AW.Mail.Notification.Service.Config` file contained in the Installation folder.
2. Change the level from **Error** to **Verbose** in the application configuration.
3. Wait a few minutes for the service to pick up the logging change.

### Email Notification Service v2

By default, ENSv2 runs at the most verbose level of logging.

### VMware Tunnel

To change the logging levels for VMware Tunnel, in the Workspace ONE UEM console, navigate to **Groups & Settings > All Settings > System > Enterprise Integration > VMware Tunnel > Configuration > Advanced**.

### AirWatch Content Gateway

To change the logging levels for the Content Gateway:

1. Access the `logback.xml` file contained in the Content Gateway Config folder.
2. Change the level to **debug** in the `<logger name="com.airwatch" level="info" />` line.
3. Wait a few minutes for the service to pick up the logging change.

### Unified Access Gateway

To change the logging levels for the Unified Access Gateway service:



1. In the Unified Access Gateway Admin UI, navigate to **Support Settings > Log Level Settings**.
2. Select **INFO**, **ERROR**, **WARNING**, or **DEBUG** based on your requirements.

Level	Type of Information Collected
INFO	Information messages that highlight the progress of the service.
ERROR	Error events that might still allow the service to continue running.
WARNING	Potentially harmful situations but are usually recoverable or can be ignored.
DEBUG	Events that would generally be useful to debug problems. You can enable the debug mode to view or manipulate the internal state of the appliance. The debug mode lets you test the deployment scenario in your environment.

3. Wait a few minutes for the service to pick up the logging change.

## Remote File Storage

To change the logging levels for Remote File Storage:

1. Access the logback.xml file contained in the RFS Configuration Folder.
2. Edit the file on using the Linux vi editor or on WinSCP:
3. Edit the logback.xml file:
  - a. Enter `i` to begin writing text.
  - b. Change the logging level XML attribute value in both the **logger** and **root** XML elements.
  - c. Select **Esc** to exit edit.
  - d. Press `wq!` to write and quit.
4. Save changes and restart each service.

## Content Rendering Engine

To change the logging levels for the Content Rendering Engine:

1. Access the logback.xml file contained in the CRE Configuration Folder.
2. Edit the file on using the Linux vi editor or on WinSCP:
3. Write text in the logback.xml file:
  - a. Enter `i` to begin writing text.
  - b. Change the logging level XML attribute value in both the **logger** and **root** XML elements.
  - c. Select **Esc** to exit edit.
  - d. Press `wq!` to write and quit.
4. Restart each service after saving changes.

## VMware Identity Manager Service

To change the logging level for the VMware Identity Manager Service in the Workspace ONE UEM console, navigate to **Groups & Settings > All Settings > Admin > Diagnostics > Logging**.

## VMware Identity Manager Connector (ESC)

To change the logging levels for the VMware Identity Connector:

1. Access the `lhc-log4j.properties` file contained in `/usr/local/horizon/conf/`.
2. Add `"log4j.rootLogger=DEBUG,rollingFile,SYSLOG"` to the first line of the file.
3. Wait a few minutes for the service to pick up the logging change.

## Workspace One Intelligence

By default, Workspace ONE Intelligence (ETL) runs at the most verbose level of logging.

## Adaptiva

By default, Adaptiva runs at the most verbose level of logging.

## Memcached

By default, Memcached runs at the most verbose level of logging.

# Chapter 7:

## Logging Best Practices

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## Capture Logs

Capturing accurate verbose logs helps diagnose errors and disconnections in your deployment.

To capture logs:

1. Ensure that the logging is currently producing verbose entries after a logging level change. Verify that debug entries are logged to ensure that the correct logging levels have applied.
2. Rename the current log file to include the date and time the log was captured.  
Changing the filename ensures that the log is not overwritten.  
For Java based services, you must stop the service before renaming any files.
3. Reproduce the event that cause the error, for example, an authentication failure.
4. Rename the new log file with a description of the observed error. Add a –Description or –DateTime helps identify the contents of the log file.
5. Export the log file to a sharable location. If applicable, attach the log file to a support ticket.

## Logging Examples

The following table provides examples of the verbose logging that you can gather to troubleshoot an issue. These logs are AirWatch-specific, so additional third-party logs may be required for troubleshooting. As a best practice, include replication time stamp information to expedite reviewing logging and aiding identification of pertinent errors.

Example	Log Files
Unable to enroll (AD user)	Deviceserviceslog.txt, u_ex####.log, DeviceManagement.txt, AWCM.log, and CloudConnector.log.
Unable to enroll (Basic User)	Deviceserviceslog.txt, u_ex####.log, and DeviceManagement.txt.
Unable to enroll (DEP)	Deviceserviceslog.txt, u_ex####.log, DeviceManagement.txt, AWCM.log, and CloudConnector.log.
Unable to enroll (AFW)	Deviceserviceslog.txt, u_ex####.log, DeviceManagement.txt, AWCM.log, and CloudConnector.log.
Unable to login to console (Admin)	WebLogFile.txt, AWCM.log, and CloudConnector.log.
Console UI errors	WebLogFile.txt.
Unable to upload application	WebLogFile.txt.
VPP sync failures	AW.IntegrationService.log and WebLogFile.txt.
Unable to upload content	WebLogFile.txt.
Unable to add repository	WebLogFile.txt, CGContent.log (relay) and CGContent.log (endpoint).

Example	Log Files
Device incorrectly reporting compliance violation	Deviceserviceslog.txt, AirWatch.log (targeted logging), and complianceservice.txt
Device incorrectly reporting email compliance violation	AW.EAS.IntegrationService.log and WebLogFile.txt.
Device not checking in	Deviceserviceslog.txt, MessagingServiceLog.txt, targeted logging (DS), and device side logging.
Profile will not install/push	Deviceserviceslog.txt, InterrogatorQueueService.log, SmartGroupServiceLogFile.txt, targeted logging (CN&DS), BulkProcessingServiceLogfile.txt, and device side logging.
Application will not install/push	Deviceserviceslog.txt, InterrogatorQueueService.log, SmartGroupServiceLogFile.txt, targeted logging (CN&DS), BulkProcessingServiceLogFile.txt, and device side logging.
Certificate will not install/push	Deviceserviceslog.txt, BulkProcessingServiceLogFile.txt, targeted logging (DS), and device side logging.
Products will not push	Deviceserviceslog.txt, ContentDeliveryService.log, BulkProcessingServiceLogFile.txt, PolicyEngine.log, targeted logging (CN&DS), and device side logging.
User group sync fails	AWCM.log, DirectorySyncServiceLogFile.txt, SchedulerService.log, and CloudConnector.log.
User attribute sync fails	AWCM.log, DirectorySyncServiceLogFile.txt, SchedulerService.log, and CloudConnector.log.
User group users missing	AWCM.log, DirectorySyncServiceLogFile.txt, SchedulerService.log, and CloudConnector.log.
DEP sync failures	WebLogFile.txt and BulkProcessingServiceLogFile.txt
Unable to receive email (New Device & Classic SEG)	AW.Meg.Queue.Service.log (DS), AW.EAS.Web.Listener.log, AW.EAS.Web.log, and AW.EAS.Integrationservice.log
Unable to receive email (New Device & SEGV2)	http-transaction.log, app.log, and policy-update.txt.
Unable to receive email (New Device & PowerShell)	AW.Meg.Queue.Service.log (DS), AWCM.log, and CloudConnector.log if enabled.
Unable to receive email (Existing Device & SEG)	AW.EAS.Web.Listener.log, AW.EAS.Web.log, and AW.EAS.Integrationservice.log.
Unable to receive email (Existing Device & SEGV2)	http-transaction.log and app.log.
Unable to receive email (Existing Device & PowerShell)	Third party logging.
Unable to browse internal sites	Proxy.log (relay), Proxy.log (endpoint), Access_Tunnel.log, targeted logging (DS), and device side logging.
Unable to connect to internal content	CGContent.log (relay), CGContent.log (endpoint), targeted logging (DS), and device side logging.

Example	Log Files
CA integration errors	WebLogFile.txt, AWCM.log, and CloudConnector.log if enabled.
SMTP integration errors	WebLogFile.txt, AWCM.log, and CloudConnector.log if enabled.
Enterprise system connector test connection failure	WebLogfile.txt, AWCM.log, and Connector.log.
ACC test connection failure	WebLogFile.txt, AWCM.log, and CloudConnector.log.
Directory services test connection failure	WebLogFile.txt, AWCM.log and CloudConnector.log if enabled.
AWCM test connection failure	WebLogFile.txt and AWCM.log.
Content Gateway test connection failure	WebLogFile.txt and CGContent.log (Relay).
File Storage test connection failure	WebLogFile.txt.
Syslog errors	WebLogFile.txt, ChangeEventQueue.log, AWCM.log, and CloudConnector.log if enabled.
Installer errors	%ServiceName%.log.
Service startup errors	Windows Event Logs and %ServiceName%.log.
ENSv2 Errors	ENS.log and ReSubscriptionMechanism.log
MAC DMG errors (Munki)	ManagedSoftwareUpdate.log
App Wrapping errors	AppWrap.log.