



# VMWARE WORKSPACE ONE (WS1) UEM SUPPLEMENTAL PROCEDURES

Version 2, Release 1

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Developed by VMware and DISA for the DoD

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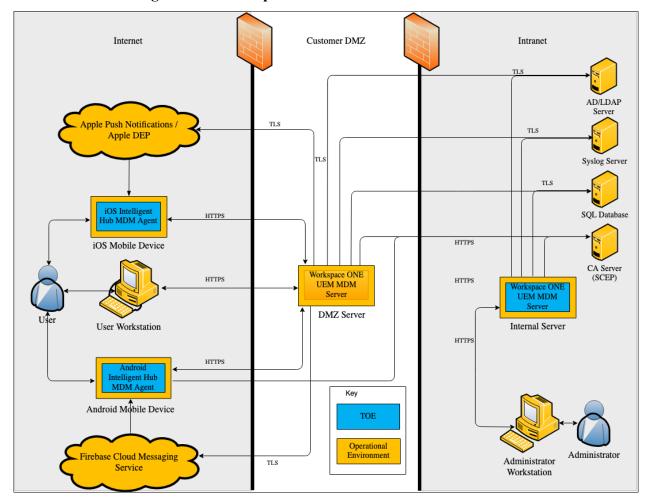
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# 1. WORKSPACE ONE UEM MDM SOFTWARE SECURITY AND CONFIGURATION INFORMATION

#### 1.1 Workspace ONE UEM MDM Architecture

Figure 1-1: Workspace ONE UEM MDM Architecture



#### 1.2 MDM Software Components

**Table 1-1: Workspace ONE UEM Core Components** 

Component	Description
Workspace ONE Intelligent Hub MDM	Workspace ONE Agent application installed
Agent Application	on the mobile device to communicate with
	the Workspace ONE UEM MDM Server
Workspace ONE UEM MDM DMZ Device	Workspace ONE UEM application server
Services Server	installed within DMZ for external
	communication to mobile devices
Workspace ONE UEM MDM Internal	Workspace ONE UEM application server
Network Console Server	installed within internal network for hosting
	the Administration Console
Workspace ONE UEM SQL Database Server	Workspace ONE UEM SQL Database
	installed on internal network to house MDM
	configuration data

### 1.3 Workspace ONE UEM MDM Required Firewall Ports

**Table 1-2: Required Ports and Services** 

From	To	Port	Description
Native Mobile Device	Workspace ONE	443	TLS/HTTPS
MDM Agent,	UEM MDM DMZ	(TLS/HTTPS)	communication between
Workspace ONE	Device Services		mobile device and
Intelligent Hub MDM	Server		Workspace ONE
Agent, and User			Intelligent Hub MDM
Workstation			Agent application to
			MDM DMZ Server
Workspace ONE	Certificate	Customizable to	Communication from
Intelligent Hub	Authority (CA)	Organization	Workspace ONE
Android MDM Agent	Server	Requirements	Intelligent Hub Android
		(Default 443	MDM Agent to CA
		[HTTPS])	Server for obtaining
			unique certificates
Workspace ONE	CA Server	Customizable to	Communication from
UEM MDM DMZ		Organization	Workspace ONE UEM
Device Services		Requirements	MDM DMZ Device
Server		(Default 443	Services Server to CA
		[HTTPS])	Server for obtaining
			unique certificates
Workspace ONE	Workspace ONE	1433 (TCP)	Communication from
UEM MDM DMZ	UEM SQL		Workspace ONE UEM
Device Services	Database Server		MDM DMZ Device
Server			Services Server to

From	To	Port	Description
			Workspace ONE UEM
			SQL Database Server
Workspace ONE	External Auditing	Customizable to	TLS connection via
UEM MDM DMZ	Server	Organization	Syslog from Workspace
Device Services		Requirements	ONE UEM MDM DMZ
Server		(Default 443	Device Services Server to
		[TLS])	Enterprise External
			Auditing Server
Workspace ONE	Enterprise LDAP	686/3269	Communication from
UEM MDM DMZ	or Directory	(TLS/HTTPS)	Workspace ONE UEM
Device Services	Server		MDM DMZ Device
Server			Services Server to LDAP
			or Directory Server
Internal Network	Workspace ONE	443	TLS/HTTPS
Workstations	UEM MDM	(TLS/HTTPS)	communication between
	Internal Network		Internal Network
	Console Server		Workstations and
			Workspace ONE UEM
W. 1 ONE	G + G	G	MDM Console Server
Workspace ONE	CA Server	Customizable to	Communication from
UEM MDM Internal		Organization	Workspace ONE UEM
Network Console		Requirements	MDM Network Console
Server		(Default 443	Server to CA Server for
		[HTTPS])	obtaining unique certificates
Wantranga ONE	Warlranges ONE	1433 (TCP)	Communication from
Workspace ONE UEM MDM Internal	Workspace ONE UEM SQL	1433 (TCF)	Workspace ONE UEM
Network Console	Database Server		Internal Console Server to
Server	Database Server		Internal Workspace ONE
Scrvci			UEM SQL Database
			Server
Workspace ONE	External Auditing	Customizable to	TLS connection via
UEM Internal	Server	Organization	Syslog from Workspace
Network Console		Requirements	ONE UEM Console
Server		(Default 443	Server to Enterprise
~		[TLS])	External Auditing Server
Workspace ONE	Enterprise LDAP	686/3269	Communication from
UEM Internal	or Directory	(TLS/HTTPS)	Workspace ONE UEM
Network Console	Server		Console Server to LDAP
Server			or Directory Server
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