VMWARE WORKSPACE ONE (WS1) UEM SUPPLEMENTAL PROCEDURES

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Developed by VMware and DISA for the DoD

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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
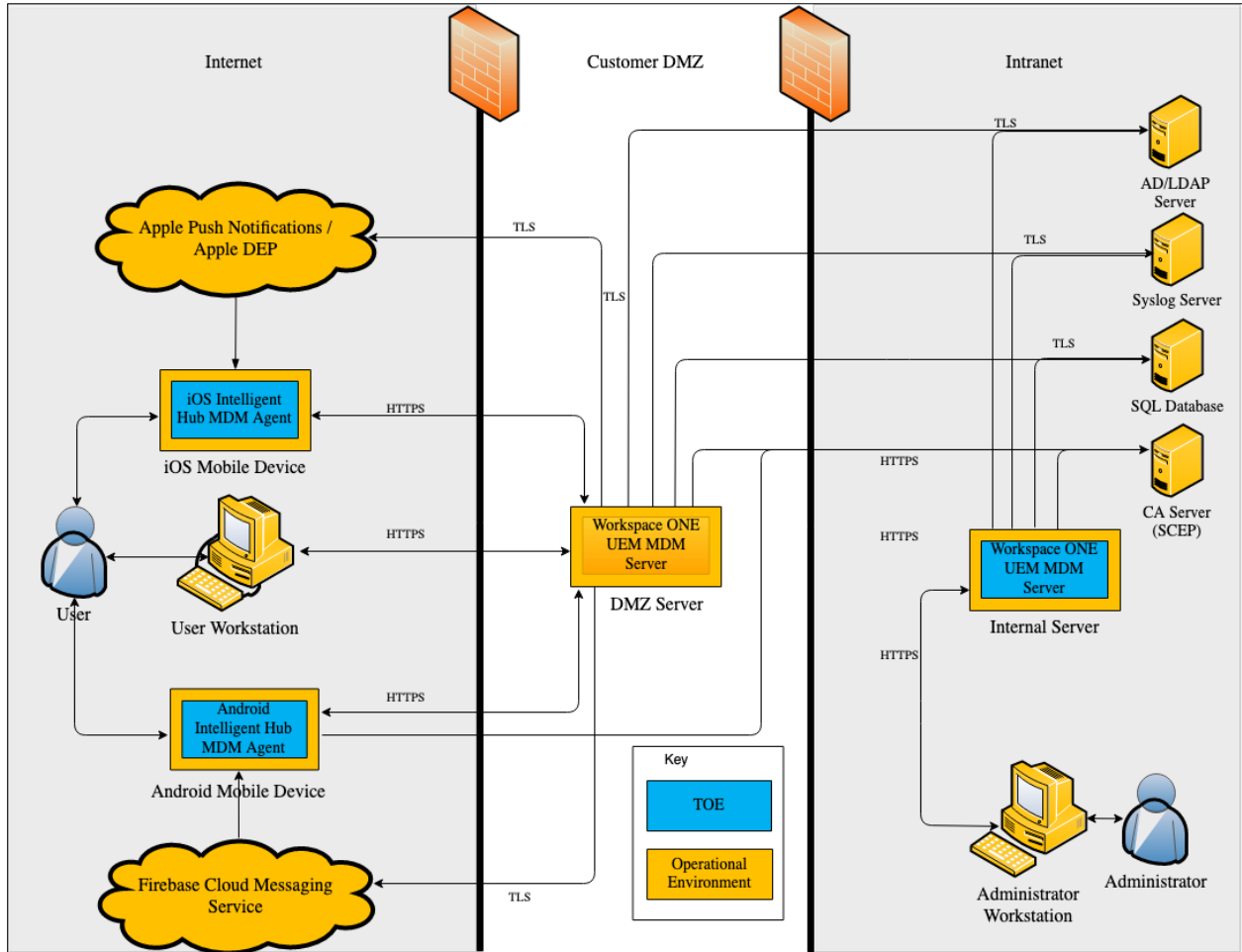
1.2   MDM Software Components

Table 1-1: Workspace ONE UEM Core Components

Component	Description
Workspace ONE Intelligent Hub MDM Agent Application	Workspace ONE Agent application installed on the mobile device to communicate with the Workspace ONE UEM MDM Server
Workspace ONE UEM MDM DMZ Device Services Server	Workspace ONE UEM application server installed within DMZ for external communication to mobile devices
Workspace ONE UEM MDM Internal Network Console Server	Workspace ONE UEM application 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 MDM Agent, Workspace ONE Intelligent Hub MDM Agent, and User Workstation	Workspace ONE UEM MDM DMZ Device Services Server	443 (TLS/HTTPS)	TLS/HTTPS communication between mobile device and Workspace ONE Intelligent Hub MDM Agent application to MDM DMZ Server
Workspace ONE Intelligent Hub Android MDM Agent	Certificate Authority (CA) Server	Customizable to Organization Requirements (Default 443 [HTTPS])	Communication from Workspace ONE Intelligent Hub Android MDM Agent to CA Server for obtaining unique certificates
Workspace ONE UEM MDM DMZ Device Services Server	CA Server	Customizable to Organization Requirements (Default 443 [HTTPS])	Communication from Workspace ONE UEM MDM DMZ Device Services Server to CA Server for obtaining unique certificates
Workspace ONE UEM MDM DMZ Device Services Server	Workspace ONE UEM SQL Database Server	1433 (TCP)	Communication from Workspace ONE UEM MDM DMZ Device Services Server to

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