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## ProfileUnity™ Communication Port Requirements

### Summary

ProfileUnity™ with FlexApp provides User Environment Management and Application Layering for both virtual desktop deployments and physical PCs. ProfileUnity decouples user profiles, settings and data from the operating system on Windows desktops, including RDSH, Citrix XenDesktop, XenApp, and VMware Horizon. ProfileUnity's ongoing User Environment Management features centralized user and policy management with context aware settings.

The ProfileUnity solution consists of three parts: the Management Console, the FlexApp Packaging Console, and the Client. The ProfileUnity Management Console provides one central location where administrators can configure persona management and user and machine policies. The FlexApp Packaging Console allows administrators to configure and prepare any applications that will need to be configured for users and made available as a department installed application (DIA). The Client manages each user's settings and persona during their session.

In addition, ProfileUnity can be configured in a clustered mode to provide multiple nodes for scaling additional resources and to protect against a single point of failure offering high availability. ProfileUnity Clustering is comprised of the following parts that communicate with each other: the messaging fabric, the FlexDisk Service, the Connection Server Monitor, the ProfileUnity database, and ProfileUnity itself.

The goal of this document is to provide a summary of the types of communication that are taking place while providing user services and to enumerate which ports are being used.

## CORE PROFILEUNITY UEM, FLEXAPP DIA & UIA WITH VHD, AND PROFILEDISK WITH VHD

Source	Target	TCP Port	Target Port Direction	Description
Admin PC	ProfileUnity Server	8000	Inbound	Admin PC access to the ProfileUnity Management Console
Desktops with Inventory enabled	ProfileUnity Server	8000	Inbound	For ProfileUnity's Inventory Management module
Desktops	All domain controllers with read access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	The ProfileUnity Installer and Client will access this path.
	Home share for user profile	SMB 445 (TCP & UDP)	Inbound	The ProfileUnity client will read the user's profile from this path.
	VHD file share	SMB 445 (TCP & UDP)	Inbound	The ProfileUnity Client will layer in applications located on this file share.
	ProfileUnity Server	5672	Inbound	Desktops communicating with ProfileUnity to request licensing
ProfileUnity Server	All domain controllers in the site	389, 636	Inbound	The default port for LDAP traffic is on TCP and UDP 389. If LDAP traffic is tunneled through SSL/TLS encrypted connections, then TCP port 636 is used for SSL and TCP port 389 is used for TLS.
	All domain controllers with write access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	Allows ProfileUnity Management Console to auto deploy tools and write configurations to domain controller.

**CITRIX XENDESKTOP VMDK PROFILEDISK PORTS**

Source	Target	TCP Port	Target Port Direction	Description
Admin PC	All clustered ProfileUnity Servers	8000	Inbound	Admin PC access to the ProfileUnity Management Console
Desktops	All domain controllers with read access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	The ProfileUnity Installer and Client will access this path.
	Home share for user profile	SMB 445 (TCP & UDP)	Inbound	(Optional) The ProfileUnity Client will read the user's profile from this path.
	All clustered ProfileUnity Servers	5672	Inbound	Desktops communicating with ProfileUnity to request FlexDisk VMDKs and licensing
All clustered ProfileUnity Servers	All clustered ProfileUnity Servers	4443	Inbound	FlexDisk service communications
	All clustered ProfileUnity Servers	35197, 4369	Inbound, Outbound	ProfileUnity Fabric cluster communications
	All clustered ProfileUnity Servers	5672	Inbound, Outbound	ProfileUnity Fabric message communications
	All clustered ProfileUnity Servers	27017	Inbound, Outbound	ProfileUnity Database cluster communications
	VMware Virtual Center	443	Inbound	FlexDisk VMDK provisioning and management
	All ESXi Hosts	443, 902	Inbound (443), Bidirectional (902)	FlexDisk VMDK provisioning and management
	All domain controllers in the site	389, 636	Inbound	The default port for LDAP traffic is on TCP and UDP 389. If LDAP traffic is tunneled through SSL/TLS encrypted connections, then TCP port 636 is used for SSL and TCP port 389 is used for TLS.
	All domain controllers with write access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	Allows ProfileUnity Management Console to auto deploy tools and write configurations to domain controller.

## VMWARE VIEW VMDK PROFILEDISK PORTS

Source	Target	TCP Port	Target Port Direction	Description
Admin PC	All clustered ProfileUnity Servers	8000	Inbound	Admin PC access to the ProfileUnity Management Console
Desktops	All domain controllers with read access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	The ProfileUnity Installer and Client will access this path.
	Home share for user profile	SMB 445 (TCP & UDP)	Inbound	(Optional) The ProfileUnity Client will read the user's profile from this path.
	All clustered ProfileUnity Servers	5672	Inbound	Desktops communicating with ProfileUnity to request FlexDisk VMDKs and licensing
All clustered ProfileUnity Servers	All clustered ProfileUnity Servers	4443	Inbound	FlexDisk service communications
	All clustered ProfileUnity Servers	35197, 4369	Inbound, Outbound	ProfileUnity Fabric cluster communications
	All clustered ProfileUnity Servers	5672	Inbound, Outbound	ProfileUnity Fabric message communications
	All clustered ProfileUnity Servers	27017	Inbound, Outbound	ProfileUnity Database cluster communications
	VMware Virtual Center	443	Inbound	FlexDisk VMDK provisioning and management
	All ESXi Hosts	443, 902	Inbound (443), Bidirectional (902)	FlexDisk VMDK provisioning and management
	All domain controllers in the site	389, 636	Inbound	The default port for LDAP traffic is on TCP and UDP 389. If LDAP traffic is tunneled through SSL/TLS encrypted connections, then TCP port 636 is used for SSL and TCP port 389 is used for TLS.
	All domain controllers with write access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	Allows ProfileUnity Management Console to auto deploy tools and write configurations to domain controller.
Connection Server Monitor & All View Brokers	All clustered ProfileUnity Servers	5672	Inbound	Connection Server Monitor will send login and logoff information for the FlexDisk Fabric to process.

**CITRIX XENDESKTOP AND XENAPP VMDK FLEXAPP DIA PORTS**

Source	Target	TCP Port	Target Port Direction	Description
Admin PC	All clustered ProfileUnity Servers	8000	Inbound	Admin PC access to the ProfileUnity Management Console
Desktops	All domain controllers with read access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	The ProfileUnity Installer and Client will access this path.
	Home share for user profile	SMB 445 (TCP & UDP)	Inbound	(Optional) The ProfileUnity Client will read the user's profile from this path.
	All clustered ProfileUnity Servers	5672	Inbound	Desktops communicating with ProfileUnity to request FlexDisk VMDKs and licensing
All clustered ProfileUnity Servers	All clustered ProfileUnity Servers	4443	Inbound	FlexDisk service communications
	All clustered ProfileUnity Servers	35197, 4369	Inbound, Outbound	ProfileUnity Fabric cluster communications
	All clustered ProfileUnity Servers	5672	Inbound, Outbound	ProfileUnity Fabric message communications
	All clustered ProfileUnity Servers	27017	Inbound, Outbound	ProfileUnity Database cluster communications
	VMware Virtual Center	443	Inbound	FlexDisk VMDK provisioning and management
	All ESXi Hosts	443, 902	Inbound (443), Bidirectional (902)	FlexDisk VMDK provisioning and management
	All domain controllers in the site	389, 636	Inbound	The default port for LDAP traffic is on TCP and UDP 389. If LDAP traffic is tunneled through SSL/TLS encrypted connections, then TCP port 636 is used for SSL and TCP port 389 is used for TLS.
	All domain controllers with write access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	Allows ProfileUnity Management Console to auto deploy tools and write configurations to domain controller.
FlexApp Packaging Console	ProfileUnity Service	8000	Inbound	FlexApp Packaging Console access to check FlexApp packages into inventory
	FlexDisk Service	4443	Inbound	FlexApp Packaging Console VMDK provisioning
	VMware Virtual Center	443	Inbound	FlexDisk VMDK provisioning and management

**VMWARE VIEW AND RDSH VMDK FLEXAPP DIA PORTS**

Source	Target	TCP Port	Target Port Direction	Description
Admin PC	All clustered ProfileUnity Servers	8000	Inbound	Admin PC access to the ProfileUnity Management Console
Desktops	All domain controllers with read access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	The ProfileUnity Installer and Client will access this path.
	Home share for user profile	SMB 445 (TCP & UDP)	Inbound	(Optional) The ProfileUnity Client will read the user's profile from this path.
	All clustered ProfileUnity Servers	5672	Inbound	Desktops communicating with ProfileUnity to request FlexDisk VMDKs and licensing
All clustered ProfileUnity Servers	All clustered ProfileUnity Servers	4443	Inbound	FlexDisk service communications
	All clustered ProfileUnity Servers	35197, 4369	Inbound, Outbound	ProfileUnity Fabric cluster communications
	All clustered ProfileUnity Servers	5672	Inbound, Outbound	ProfileUnity Fabric message communications
	All clustered ProfileUnity Servers	27017	Inbound, Outbound	ProfileUnity Database cluster communications
	VMware Virtual Center	443	Inbound	FlexDisk VMDK provisioning and management
	All ESXi Hosts	443, 902	Inbound (443), Bidirectional (902)	FlexDisk VMDK provisioning and management
	All domain controllers in the site	389, 636	Inbound	The default port for LDAP traffic is on TCP and UDP 389. If LDAP traffic is tunneled through SSL/TLS encrypted connections, then TCP port 636 is used for SSL and TCP port 389 is used for TLS.
	All domain controllers with write access to NETLOGON	SMB 445 (TCP & UDP)	Inbound	Allows ProfileUnity Management Console to auto deploy tools and write configurations to domain controller.
FlexApp Packaging Console	ProfileUnity Service	8000	Inbound	FlexApp Packaging Console access to check FlexApp packages into inventory
	FlexDisk Service	4443	Inbound	FlexApp Packaging Console VMDK provisioning

Source	Target	TCP Port	Target Port Direction	Description
	VMware Virtual Center	443	Inbound	FlexDisk VMDK provisioning and management
Connection Server Monitor & All View Brokers	All clustered ProfileUnity Servers	5672	Inbound	Connection Server Monitor will send login and logoff information for the FlexDisk Fabric to process.