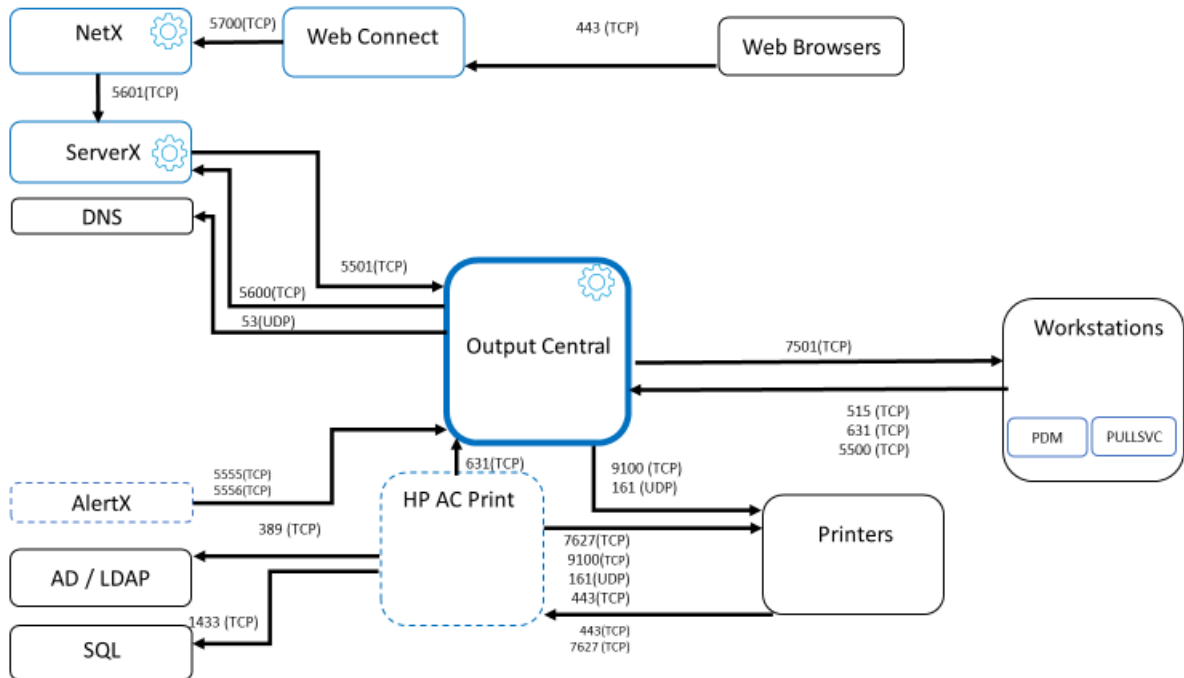


HP Advance Network Port Requirements

HP Advance Module:	HP Output Central and optional products	V1 R3.06
Doc Revision:	02 July 2020	

Description:	HP Output Central Print Server and optional products HP Direct Print / Scan, HP Innovate Audit and HP Mobile Connector
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Diagram:



Legend

Core HP Advance Modules		Services	
Optional Modules		External Services	

Ports List: HP Output Central and Required Components				
Port	Type	Source	Destination	Description
161	UDP	Output Central	Printers	SNMP Status query for printers
5501	TCP	ServerX	Output Central	API Communication between ServerX & Output Central and remote status feedback from Output Central to Output Central
5500	TCP	LRSQ	VPSX	LRS/LRSQ Job submission
5600	TCP	Output Central	ServerX	API Communication Output Central & ServerX
5601	TCP	NetX	ServerX	
5703	TCP	Output Central	Innovate Audit	Accounting data to Innovate Audit Service
5501	TCP	ServerX	Output Central	API Communications with Output Central
5701	TCP	ServerX	DIS	Communication with DIS

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5700	TCP	WebConnect	NetX	Communication with NetX
53	UDP	Output Central	DNS	Domain Name Server lookup
631	TCP	PDM	Output Central	Driver download and updates via PDM
443	TCP	Web Browser	WebConnect	Browser connection HTTP traffic over port 443
161	UDP	PULLSVC	Printers	SNMP status query for printers (only for DSR)
5601	TCP	PDM and PULLSVC	ServerX	Workstation communication with ServerX (only required for download of print policies and Direct Secure Release)
9100	TCP	PDM or PULLSVC	Printers	Socket/Raw Printing to devices
9100	TCP	Output Central	Printers	Socket/Raw Printing to devices
515	TCP	PDM	Output Central	LPR Job submission from workstations
389	TCP	HP AC Print	Active Directory	Communication between HP AC Print and AD for authentication
1433	TCP	HP AC Print	SQL	Communication between HP AC Print and SQL for authentication

Ports List: Optional Products – XenApp

Port	Type	Source	Destination	Description
5601	TCP	VSPA.EXE	ServerX	API request from VSPA.EXE (Virtual Desktop) to ServerX (retrieve printer list)
80	TCP	VSPA for XenApp	WebConnect	SOAP connection HTTP traffic over port 80
443	TCP	VSPA for XenApp	WebConnect	SOAP connection HTTPS traffic over port 443

Ports List: Optional Products – HP Access Control Print

Note: See also separate Network Port Requirements document for each MFPsecure client used (HP, Lexmark, Xerox, Ricoh, etc)

Port	Type	Source	Destination	Description
631	TCP	HP AC Print	Output Central	IPP Job Information and release
443	TCP	Workstation	HP AC Print	User card enrolment via MyCodes or email enrolment (if used)

Ports List: Optional Products – HP Devices

Port	Type	Source	Destination	Description
161	UDP	HP AC Print	Printer	SNMP device detection
443	TCP	Printer	HP AC Print	Authentication, pull print requests.
443	TCP	HP AC Print	Printer	Agent deployment & configuration
7627	TCP	HP AC Print	Printer	Agent deployment & configuration

HP Advance Network Port Requirements

Description of HP Advance components			
Component	Optional or Required	Platforms supported	Description
Output Central	Required	Windows, Unix, Linux	Receives, processes and distributes output files. Each Output Central print server can register with one or more ServerX servers.
ServerX	Required	Windows, Unix, Linux	Provides directory and security services for administrator and user access to one or more Output Central servers.
NetX	Required	Windows, Unix, Linux	Web Application Server.
Webconnect	Required	Windows, Unix, Linux	Connector from the customers web server to the NetX server.
Virtual Session Printer Agent (VSPA)	Optional	Output Central on Windows, Unix, Linux XenDesktop and/or XenAPP on Windows	Provision Output Central printers to users of XenDesktop and/or XenApp.
HP Innovate Audit	Optional	Windows	Audit server – collects audit data from VPSX and PDM instances.
HP Access Control Print	Optional	Windows	Provides services for pull printing. Connects to HP AC Print agents and Output Central systems.
HP Mobile Connector	Optional	Windows	Allows print submission to Output Central from email and/or APP.
PDM (Printer Driver Manager)	Optional	Windows (or linux / mac with limited function)	Allows definition of printer queues, drivers, options and preferences using HP Printer Locator or Portal. Generates audit data for windows print events. PDM Advanced includes Policy Print function.
PULLSVC (Pull Service)	Optional	Windows	Enables Direct Secure Release (DSR - client based pull print) function. Used to send files printers in Direct Print mode when COMMTYPE=IPPS is used.
HP iOS or Android APP	Optional	iOS or Android	Print submission APP for iOS and Android. Allows user discovery of printers and print submission.