Prime Fulfillment Runtime Configuration Information

This appendix explains the following Prime Fulfillment information for runtime configuration:

Default TCP Port Values and Protocol Directions Used by Prime Fulfillment

Prime Fulfillment uses various Transmission Control Protocol (TCP) ports during its operation. Most TCP ports are configured during the installation. Table E-1 and Table E-2 specify the most vital TCP primary and optional ports, respectively, their default values, and the direction.

Table E-1 Prime Fulfillment Primary TCP Ports, Their Default Values, and Direction

TCP Primary Ports (listed alphabetically)	Default Values	Direction	Notes
HTTP	8030	Web browser to Prime Fulfillment	Used for Web GUI and NBI
Tibco RVA	7600	Prime Fulfillment to web browser	Used by some applications
Tomcat	8031	Web browser to Prime Fulfillment	HTTP port value + 1

Table E-2 Prime Fulfillment Optional TCP Ports, Their Default Values, and Direction

TCP Optional Ports (listed alphabetically)	Default Values	Direction	Notes
HTTPS	8443	Web browser to Prime Fulfillment	If HTTPS activated
Oracle	1521	Prime Fulfillment to Oracle Server	If Oracle database is used
Tibco RVA Admin	7630	Web browser to Prime Fulfillment	If RVA config required

Table E-2   Prime Fulfillment Optional TCP Ports, Their Default Values, and Direction (continued)

TCP Optional Ports (listed alphabetically)	Default Values	Direction	Notes
Tibco RVD or RVRD	7530	Bi-directional between Prime Fulfillment and Cisco Configuration Engine server	If using CNS transport mechanism for device access
Tibco RVRD Admin	7580	Web browser to Prime Fulfillment	If RVRD config required

The values selected during the installation can be retrieved from the file **$PRIMEF_HOME/etc/install.cfg**. Most of these ports only need to be allowed if you are allowing users to access Prime Fulfillment from outside your firewall.

Prime Fulfillment uses or can use the protocols specified in Table E-3 to communicate with the routers under its configuration control.

> **Note** The selected protocol for each of the following categories must be able to pass through any firewalls between Prime Fulfillment and the devices:
> 1. Terminal Session Protocol - **default: Telnet**; SSH; CNS*; rsh
> 2. Configuration Access Protocol - **default: selected Terminal Session Protocol**; TFTP; FTP; rcp
> 3. SNMP - **default: SNMPv1/v2c**; SNMPv3
> * CNS is a transport mechanism that uses the TIB/Rendezvous event bus to communicate with a Cisco Configuration Engine server..

Table E-3   Protocols and Directions with Prime Fulfillment

Protocols (listed alphabetically)	Directions
FTP	Devices to FTP server
NFS	Between Prime Fulfillment and TFTP or FTP server if server is on a different machine. (Can be blocked if you do not use FTP or TFTP.)
rcp	Prime Fulfillment to devices
rsh	Prime Fulfillment to devices
SSH	Prime Fulfillment to devices
SSHv2	Prime Fulfillment to devices
SNMP	Prime Fulfillment to devices
SNMPv3	Prime Fulfillment to devices
Telnet	Prime Fulfillment to devices
TFTP	Devices to TFTP server

> **Note** Device creation is explained in the chapter Service Inventory—Inventory and Connection Manager, in the *Cisco Prime Fulfillment User Guide 6.2*.

Command-Line Interfaces Used by Prime Fulfillment

This section specifies the command-line interfaces (CLIs) used by Prime Fulfillment. This list gives commands supported in IOS and IOS XR unless otherwise indicated:

- commit (not supported in IOS)
- configure exclusive (not supported in IOS)
- config term
- copy (many variations)
- enable (not supported in IOS XR)
- end
- exit
- ping [vrf]
- reload
- show diag (not supported in IOS XR)
- show diags (not supported in IOS)
- show etherchannel port (not supported in IOS XR)
- show interfaces switchport (not supported in IOS XR)
- show modules (not supported in IOS XR)
- show port (not supported in IOS XR)
- show running
- show startup (not supported in IOS XR)
- show ver
- term (length, width, editing) (editing not supported in IOS XR)
- write mem (not supported in IOS XR)
- [no] logging console

Note   The CLIs used by the Cisco Prime Diagnostics are listed in the *Cisco Prime Fulfillment User Guide 6.2.*