

Cisco ISE Ports Reference

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Cisco ISE All Persona Nodes Ports

Table 1: Ports Used by All Nodes

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces (Gigbit Ethernet 1 through 5, or Bond 1 and 2)
Replication and Synchronization	 HTTPS (SOAP): TCP/443 Data synchronization/ Replication (JGroups): TCP/12001 (Global) ISE Messaging Service: SSL: TCP/8671 	

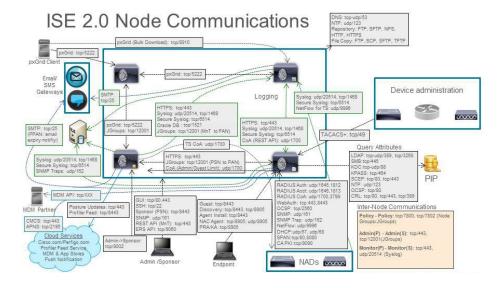
Cisco ISE Infrastructure

This appendix lists the TCP and User Datagram Protocol UDP ports that Cisco ISE uses for intranetwork communications with external applications and devices. The Cisco ISE ports listed in this appendix must be open on the corresponding firewall.

Keep in mind the following information when configuring services on a Cisco ISE network:

• Cisco ISE management is restricted to Gigabit Ethernet 0.

- RADIUS listens on all network interface cards (NICs).
- Cisco ISE server interfaces do not support VLAN tagging. If you are installing on a hardware appliance, ensure that you disable VLAN trunking on switch ports that are used to connect to Cisco ISE nodes and configure them as access layer ports.
- All NICs can be configured with IP addresses.



Cisco ISE Administration Node Ports

The following table lists the ports used by the Administration nodes:

Table 2: Ports Used by the Administration Nodes

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0 Ports on Other Ethernet Interface (Gigbit Ethernet 1 through 5, or Bond 1 and 2)	
Administration	HTTP: TCP/80, HTTPS: TCP/443 (TCP/80 redirected to TCP/443; not configurable) SSH Server: TCP/22 External RESTful Services (ERS) REST API: TCP/9060 To manage guest accounts from Admin GUI: TCP/9002 Note Ports 80 and 443 support Admin web applications and are enabled by default. HTTPS and SSH access to Cisco ISE is restricted to Gigabit Ethernet 0.	
Monitoring	SNMP Query: UDP/161 Note This port is route table dependent.	
Logging (Outbound)	Syslog: UDP/20514, TCP/1468 Secure Syslog: TCP/6514 Note Default ports are configurable for external logging. SNMP Traps: UDP/162	

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces (Gigbit Ethernet 1 through 5, or Bond 1 and 2)
External Identity Sources and Resources (Outbound)	1	
Email	Guest account and user password expirations email notification: SMTP: TCP/25	

Cisco ISE Monitoring Node Ports

The following table lists the ports used by the Monitoring nodes:

Table 3: Ports Used by the Monitoring Nodes

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces (Gigabit Ethernet 1 through 5, or Bond 1 and Bond 2)
Administration	• HTTP: TCP/80, HTTPS: TCP/443 • SSH Server: TCP/22	
Monitoring	Simple Network Management Protocol [SNMP]: UDP/161 Note This port is route table dependent.	

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces (Gigabit Ethernet 1 through 5, or Bond 1 and Bond 2)
Logging	 Syslog: UDP/20514, TCP/1468 Secure Syslog: TCP/6514 Note Default ports are configurable for external logging. SMTP: TCP/25 for email of alarms SNMP Traps: UDP/162 	
External Identity Sources and Resources (Outbound)	Admin User Interface and Endpoint Authentications:	
Bulk Download for pxGrid	SSL: TCP/8910	

Cisco ISE Policy Service Node Ports

The following table lists the ports used by the Policy Service nodes:

Table 4: Ports Used by the Policy Service Nodes

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces, or Bond 1 and Bond 2
Administration	 HTTP: TCP/80, HTTPS: TCP/443 SSH Server: TCP/22 OCSP: TCP/2560 	Cisco ISE management is restricted to Gigabit Ethernet 0.
Clustering (Node Group)	Node Groups/JGroups: TCP/7800	_

Cisco ISE Service	Ports on	Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces, or Bond 1 and Bond 2
SCEP	TCP/9090		_
Device Administration	TACACS	S+: TCP/49	
Monitoring	Simple N	letwork Management Protoco	l [SNMP]: UDP/161
	Note This port is route table dependent.		
Logging (Outbound)	• Syslog: UDP/20514, TCP/1468		
	• Secu	ure Syslog: TCP/6514	
	Note	Default ports are configurab	le for external logging.
	• SNMP Traps: UDP/162		
Session	• RADIUS Authentication: UDP/1645, 1812		645, 1812
	RADIUS Accounting: UDP/1646, 1813		
	• RADIUS Change of Authorization (CoA) Send: UDP/1700		
	• RADIUS Change of Authorization (CoA) Listen/Relay: 3799		on (CoA) Listen/Relay: UDP/1700,
	Note UDP port 3799 is not configurable.		
External Identity Sources and	Admin User Interface and Endpoint Authentications:		
Resources (Outbound)	• LDAP: TCP/389, 3268		
	• SMB: TCP/445		
	• KDC: TCP/88		
	• KPASS: TCP/464		
	• NTP: UDP/123		
	• DNS	S: UDP/53, TCP/53	
	Note		and services reachable only through it Ethernet 0, configure static routes

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces, or Bond 1 and Bond 2
Web Portal Services:	HTTPS (Interface must be enabled for service in Cisco ISE):	
- Guest/Web Authentication	• Blacklist Portal: TCP/8000-8999 (Default port is TCP/8444.)	
- Guest Sponsor Portal - My Devices Portal	 Guest Portal and Client Provisioning: TCP/8000-8999 (Default port is TCP/8443.) Certificate Provisioning Portal: TCP/8000-8999 (Default port is TCP/8443.) 	
- Client Provisioning - Certificate Provisioning		
- BlackListing Portal	• My Devices Portal: TCP/8000-89	99 (Default port is TCP/8443.)
	• Sponsor Portal: TCP/8000-8999 (Default port is TCP/8443.)
	SMTP guest notifications from gu	uest and sponsor portals: TCP/25
Posture	• Discovery (Client side): TCP/80 ((HTTP), TCP/8905 (HTTPS)
- Discovery		edirected to TCP/8443. See Web
- Provisioning		Portal and Client Provisioning.
- Assessment/ Heartbeat	Cisco ISE presents the Admin certificate for Posture and Client Provisioning on TCP port 8905.	
		Portal certificate on TCP port 8443 ve configured for portal use).
	Discovery (Policy Service Node s	side): TCP/8443, 8905 (HTTPS)
	Provisioning - URL Redirection: See Web Portal Services: Guest Portal and Client Provisioning	
	 Provisioning - Active-X and Java Web Agent Install, and launch NA Services: Guest Portal and Client 	_
	• Provisioning - NAC Agent Install	: TCP/8443
	Provisioning - NAC Agent Update Notification: UDP/8905	
	Provisioning - NAC Agent and O TCP/8905 (HTTPS)	ther Package/Module Updates:
	Assessment - Posture Negotiation (HTTPS)	and Agent Reports: TCP/8905
	Assessment - PRA/Keep-alive: U	DP/8905

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces, or Bond 1 and Bond 2
Bring Your Own Device (BYOD) / Network Service Protocol (NSP) - Redirection - Provisioning - SCEP	 Provisioning - URL Redirection: See Web Portal Services: Guest Portal and Client Provisioning. Provisioning - Active-X and Java Applet Install (includes the launch of Wizard Install): See Web Portal Services: Guest Portal and Client Provisioning Provisioning - Wizard Install from Cisco ISE (Windows and Mac OS): TCP/8443 Provisioning - Wizard Install from Google Play (Android): TCP/443 Provisioning - Supplicant Provisioning Process: TCP/8905 SCEP Proxy to CA: TCP/80 or TCP/443 (Based on SCEP RA URL configuration) 	
Mobile Device Management (MDM) API Integration	 URL Redirection: See Web Portal Services: Guest Portal and Client Provisioning API: Vendor specific Agent Install and Device Registration: Vendor specific 	
Profiling	 Agent Install and Device Registration: Vendor specific NetFlow: UDP/9996 Note	

Cisco ISE pxGrid Service Ports

The following table lists the ports used by the pxGrid Service nodes:

Table 5: Ports Used by the pxGrid Service Node

Cisco ISE Service	Ports on Gigabit Ethernet 0 or Bond 0	Ports on Other Ethernet Interfaces (Gigabit Ethernet 1 through 5, or Bond 1 and Bond 2)
Administration	• SSL: TCP/5222 (Inter-Node Communication)	_
	• SSL: TCP/7400 (Node Group Communication)	

OCSP and CRL Service Ports

For the Online Certificate Status Protocol services (OCSP) and the Certificate Revocation List (CRL), the ports are dependent on the CA Server or on service hosting OCSP/CRL although references to the Cisco ISE services and ports list basic ports that are used in Cisco ISE Administration Node, Policy Service Node, Monitoring Node separately.

For the OCSP, the default ports that can be used are TCP 80/ TCP 443. Cisco ISE Admin portal expects http-based URL for OCSP services, and so, TCP 80 is the default. You can also use non-default ports.

For the CRL, the default protocols include HTTP, HTTPS, and LDAP and the default ports are 80, 443, and 389 respectively. The actual port is contingent on the CRL server.

OCSP and CRL Service Ports