



# APPENDIX E

## Cisco ISE 3300 Series Appliance Ports Reference

This appendix lists the Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) ports that Cisco ISE Release 1.0 uses for intranetwork communications with external applications and devices. [Table E-1](#) lists the ports by TCP and UDP port number, identifies the associated feature, service, or protocol, and describes any specific port-related information that applies to the four Gigabit Ethernet ports: GbEth0, GbEth1, GbEth2, and GbEth3. The Cisco ISE ports listed in this table must be open on the corresponding firewall. The ports list provides information that can be useful when configuring a firewall, creating ACLs, and configuring services on a Cisco ISE network.

**Table E-1** Cisco ISE Services and Ports

Cisco ISE Service	Ports on GbEth0	Ports on GbEth1	Ports on GbEth2	Ports on GbEth3
Administration (ISE node)	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> <li>TCP: 80<sup>1</sup> (HTTP)</li> <li>TCP: 443<sup>2</sup> (HTTPS)</li> </ul> <p><b>Note</b> Port 80 is redirected to port 443 (not an configurable port).</p> <p><b>Note</b> Ports 80 and 443 support Admin web applications and are enabled by default.</p> <ul style="list-style-type: none"> <li>TCP: 61616 (HTTPS)</li> </ul> <p><b>Note</b> Port 61616 replicates config data between primary and secondary.</p>	Cisco ISE management is restricted to GbEth0.	Cisco ISE management is restricted to GbEth0.	Cisco ISE management is restricted to GbEth0.
	<ul style="list-style-type: none"> <li>UDP: 161 (SNMPQUERY)</li> </ul> <p><b>Note</b> This port is route table dependent.</p> <ul style="list-style-type: none"> <li>UDP: 1521<sup>3</sup> (Database Listener)</li> </ul>			

Table E-1 Cisco ISE Services and Ports (continued)

Cisco ISE Service	Ports on GbEth0	Ports on GbEth1	Ports on GbEth2	Ports on GbEth3
Monitoring (ISE node)	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> <li>TCP: 80 (HTTP)</li> <li>TCP: 443 (HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>
	<ul style="list-style-type: none"> <li>UDP: 1521 (Database Listener)</li> <li>UDP: 20514 (Syslog)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 1521 (Database Listener)</li> <li>UDP: 20514 (Syslog)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 1521 (Database Listener)</li> <li>UDP: 20514 (Syslog)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 1521 (Database Listener)</li> <li>UDP: 20514 (Syslog)</li> </ul>
Session	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>
	<ul style="list-style-type: none"> <li>UDP: 1521 (Database Listener)</li> <li>UDP: 1645,1812 (RADIUS Authentication)</li> <li>UDP: 1646, 1813 (RADIUS Accounting)</li> <li>UDP: 1700 (RADIUS CoA)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 1521 (Database Listener)</li> <li>UDP: 1645,1812 (RADIUS Authentication)</li> <li>UDP: 1646, 1813 (RADIUS Accounting)</li> <li>UDP: 1700 (RADIUS CoA)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 1521 (Database Listener)</li> <li>UDP: 1645,1812 (RADIUS Authentication)</li> <li>UDP: 1646, 1813 (RADIUS Accounting)</li> <li>UDP: 1700 (RADIUS CoA)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 1521 (Database Listener)</li> <li>UDP: 1645,1812 (RADIUS Authentication)</li> <li>UDP: 1646, 1813 (RADIUS Accounting)</li> <li>UDP: 1700 (RADIUS CoA)</li> </ul>
	<p><b>Note</b> UDP port 1700 is not configurable.</p>	<p><b>Note</b> UDP port 1700 is not configurable.</p>	<p><b>Note</b> UDP port 1700 is not configurable.</p>	<p><b>Note</b> UDP port 1700 is not configurable.</p>
	<ul style="list-style-type: none"> <li>UDP: 30514 (RADIUS)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 30514 (RADIUS)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 30514 (RADIUS)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 30514 (RADIUS)</li> </ul>
	<p><b>Note</b> This is internal via session services.</p>	<p><b>Note</b> This is internal via session services.</p>	<p><b>Note</b> This is internal via session services.</p>	<p><b>Note</b> This is internal via session services.</p>
	<ul style="list-style-type: none"> <li>UDP: 45588, 45590</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 45588, 45590</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 45588, 45590</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 45588, 45590</li> </ul>
<p><b>Note</b> UDP ports 45588 and 45590 support Policy Service communication for clustering support.</p>	<p><b>Note</b> UDP ports 45588 and 45590 support Policy Service communication for clustering support.</p>	<p><b>Note</b> UDP ports 45588 and 45590 support Policy Service communication for clustering support.</p>	<p><b>Note</b> UDP ports 45588 and 45590 support Policy Service communication for clustering support.</p>	
Guest/Sponsor Portal	<ul style="list-style-type: none"> <li>TCP: 8080 (HTTP)</li> <li>TCP: 8443 (HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8080 (HTTP)</li> <li>TCP: 8443 (HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8080 (HTTP)</li> <li>TCP: 8443 (HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8080 (HTTP)</li> <li>TCP: 8443 (HTTPS)</li> </ul>
	<p><b>Note</b> TCP ports 8080 and 8443 are enabled by default and are configurable.</p>	<p><b>Note</b> TCP ports 8080 and 8443 are enabled by default and are configurable.</p>	<p><b>Note</b> TCP ports 8080 and 8443 are enabled by default and are configurable.</p>	<p><b>Note</b> TCP ports 8080 and 8443 are enabled by default and are configurable.</p>

Table E-1 Cisco ISE Services and Ports (continued)

Cisco ISE Service	Ports on GbEth0	Ports on GbEth1	Ports on GbEth2	Ports on GbEth3
Client Provisioning	<ul style="list-style-type: none"> <li>TCP: 8443 (web or Cisco NAC agent installation)</li> </ul> <p><b>Note</b> TCP port 8443 is enabled by default, is configurable, and corresponds to a configuration for Guest.</p> <ul style="list-style-type: none"> <li>TCP: 8905 (Cisco NAC agent update)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8443 (web or Cisco NAC agent installation)</li> </ul> <p><b>Note</b> TCP port 8443 is enabled by default, is configurable, and corresponds to a configuration for Guest.</p> <ul style="list-style-type: none"> <li>TCP: 8905 (Cisco NAC agent update)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8443 (web or Cisco NAC agent installation)</li> </ul> <p><b>Note</b> TCP port 8443 is enabled by default, is configurable, and corresponds to a configuration for Guest.</p> <ul style="list-style-type: none"> <li>TCP: 8905 (Cisco NAC agent update)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8443 (web or Cisco NAC agent installation)</li> </ul> <p><b>Note</b> TCP port 8443 is enabled by default, is configurable, and corresponds to a configuration for Guest.</p> <ul style="list-style-type: none"> <li>TCP: 8905 (Cisco NAC agent update)</li> </ul>
Posture and Heartbeat	<ul style="list-style-type: none"> <li>TCP: 8905 Discovery (HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8905 Discovery (HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8905 Discovery (HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 8905 Discovery (HTTPS)</li> </ul>
	<ul style="list-style-type: none"> <li>UDP: 8905 (Layer 2) Discovery (SWISS)</li> <li>UDP: 8905 PRA/Keepalive (SWISS)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 8905 (Layer 2) Discovery (SWISS)</li> <li>UDP: 8905 PRA/Keepalive (SWISS)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 8905 (Layer 2) Discovery (SWISS)</li> <li>UDP: 8905 PRA/Keepalive (SWISS)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 8905 (Layer 2) Discovery (SWISS)</li> <li>UDP: 8905 PRA/Keepalive (SWISS)</li> </ul>

Table E-1 Cisco ISE Services and Ports (continued)

Cisco ISE Service	Ports on GbEth0	Ports on GbEth1	Ports on GbEth2	Ports on GbEth3
Profiler	<ul style="list-style-type: none"> <li>TCP: 80, 8080 (DHCPSPAN probe; HTTP)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 80, 8080 (DHCPSPAN probe; HTTP)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 80, 8080 (DHCPSPAN probe; HTTP)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 80, 8080 (DHCPSPAN probe; HTTP)</li> </ul>
	<ul style="list-style-type: none"> <li>UDP: 53 (DNS Lookup)</li> </ul> <p><b>Note</b> This port is route table dependent.</p>	<ul style="list-style-type: none"> <li>UDP: 53 (DNS Lookup)</li> </ul> <p><b>Note</b> This port is route table dependent.</p>	<ul style="list-style-type: none"> <li>UDP: 53 (DNS Lookup)</li> </ul> <p><b>Note</b> This port is route table dependent.</p>	<ul style="list-style-type: none"> <li>UDP: 53 (DNS Lookup)</li> </ul> <p><b>Note</b> This port is route table dependent.</p>
	<ul style="list-style-type: none"> <li>UDP: 67, 68 (DHCP)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 67, 68 (DHCP)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 67, 68 (DHCP)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 67, 68 (DHCP)</li> </ul> <p><b>Note</b> This port is configurable.</p>
	<ul style="list-style-type: none"> <li>UDP: 161 (SNMPQUERY)</li> </ul> <p><b>Note</b> This port is route table dependent.</p>	<ul style="list-style-type: none"> <li>UDP: 161 (SNMPQUERY)</li> </ul> <p><b>Note</b> This port is route table dependent.</p>	<ul style="list-style-type: none"> <li>UDP: 161 (SNMPQUERY)</li> </ul> <p><b>Note</b> This port is route table dependent.</p>	<ul style="list-style-type: none"> <li>UDP: 161 (SNMPQUERY)</li> </ul> <p><b>Note</b> This port is route table dependent.</p>
	<ul style="list-style-type: none"> <li>UDP: 162 (SNMPTRAP)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 162 (SNMPTRAP)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 162 (SNMPTRAP)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 162 (SNMPTRAP)</li> </ul> <p><b>Note</b> This port is configurable.</p>
	<ul style="list-style-type: none"> <li>UDP: 9996 (Netflow)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 9996 (Netflow)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 9996 (Netflow)</li> </ul> <p><b>Note</b> This port is configurable.</p>	<ul style="list-style-type: none"> <li>UDP: 9996 (Netflow)</li> </ul> <p><b>Note</b> This port is configurable.</p>
	<ul style="list-style-type: none"> <li>UDP: 30514 (RADIUS)</li> </ul> <p><b>Note</b> This is internal via session services.</p>	<ul style="list-style-type: none"> <li>UDP: 30514 (RADIUS)</li> </ul> <p><b>Note</b> This is internal via session services.</p>	<ul style="list-style-type: none"> <li>UDP: 30514 (RADIUS)</li> </ul> <p><b>Note</b> This is internal via session services.</p>	<ul style="list-style-type: none"> <li>UDP: 30514 (RADIUS)</li> </ul> <p><b>Note</b> This is internal via session services.</p>

Table E-1 Cisco ISE Services and Ports (continued)

Cisco ISE Service	Ports on GbEth0	Ports on GbEth1	Ports on GbEth2	Ports on GbEth3
Inline Posture	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>	<ul style="list-style-type: none"> <li>TCP: 22 (SSH server)</li> </ul>
	<ul style="list-style-type: none"> <li>UDP: 1645, 1812 (RADIUS proxy for authentication)</li> <li>UDP: 1646, 1813 (RADIUS proxy for accounting)</li> <li>UDP: 1700 (RADIUS CoA)</li> </ul>	<ul style="list-style-type: none"> <li>UDP: 1645, 1812 (RADIUS proxy for authentication)</li> <li>UDP: 1646, 1813 (RADIUS proxy for accounting)</li> <li>UDP: 1700 (RADIUS CoA)</li> </ul>	N/A	N/A
<b>Note</b> High Availability and Management services are Inline Posture-specific and do not apply to for any other Cisco ISE node types.				
High Availability	N/A	N/A	UDP: 694 (Heartbeat)	UDP: 694 (Heartbeat)
Management	TCP: 9090 (REST API)	N/A	N/A	N/A

1. Because Inline Posture nodes do not support the Administration persona, they will not have access to this port.
2. Because Inline Posture nodes do not support the Administration persona, they will not have access to this port.
3. Because Inline Posture nodes do not support the database listener function, they will not have access to this port.

