IPedge PORTS

This document details two sets of IPedge port lists. The first is a list of ports to open in a firewall. These include ports used by all IPedge systems and the ports used by specific applications. Refer to FIREWALL PORTS TO OPEN.

The second list shows the ports used by the IPedge system that must not be assigned to any other applications. Refer to INTERNAL SYSTEM PORTS.

For **VIPedge Systems**, ports do not normally need to be opened in the firewall.

FIREWALL PORTS TO OPEN

The following lists are the firewall ports that must be open for the IPedge system to function behind a firewall.

All Systems

The firewall ports shown in Table 1 must be open for every system.

Table 1 Open Ports for All Systems

Function	Type	Use
20 and 21	TCP	IPT firmware download and update
22	TCP	SSH (Secure Data Connection)
23	TCP	Telnet (Terminal connection)
80	TCP	Redirects to 8080
1000	TCP	SMDI (SMDI, Soft Keys, Voice Record)
1718 to 1719	UDP	Remote IP Telephone set registration
2944	TCP	Remote IP Telephone MEGAC signaling)
3000	UDP	LAN DSS (Call control IPedge Net)
3001	UDP	If survivable IPedge server is in public network, the IPedge server in private network needs this port open.
4029	TCP	IPedge Net (Connection Request)
6000	TCP	LAN BLF (Status display IPedge Net)
8080	TCP	Enterprise Manager (HTTP)
9443	TCP	Enterprise Manager (HTTPS)
10000	TCP	Webmin
12000 to 13791	TCP	IPedge Net (Connection Request)
16000 to 17999	RTP/ RTCP	IPedge Net (Node to node)
18000 to 19999	RTP/ RTCP	IPedge Net (Node to IPT)
21000 to 27999	UDP	Remote IP or SIP telephone audio Refer to Table 2-1.

Applications The firewall ports shown in Table 2 must be open for specific applications.

Table 2 Open Ports for Applications

Application	Ports	Type	Use
IP Mobility	90	TCP	IPedge Messaging Mobile App Port
	443, 2195, 2196	TCP	IPedge Messaging access to Apple® APNS for notification service
	5223	TCP	iOS device access to Apple APNS
	80	TCP	IPedge Messaging access to Google Cloud Messaging
	5228 to 5230	TCP	Android™ device access to Google Cloud Messaging
Messaging	1007	TCP	Use by the System monitor Applet
	1008	TCP	Fax printer driver and Email Callback app
SIP Trunks and Stations	5060	UDP	(SIP trunks or SIP telephones outside the firewall)
HTTPS	443	TCP	HTTPS
	9443	TCP	HTTPS
Unifier	1100 to 1105	TCP	Systems connecting with Unifier
Meeting	443	TCP	Meeting and/or HTTPS
	1270	TCP	**Note:** Port 1270 must be open for every user that will share their desktop. Desktop sharing will be very slow if moderators or participants, who are sharing their desktop, do not have port 1270 open.
	1935	TCP	
	1945	TCP	
	8444	TCP	
Net Server	8767 and 8768	TCP	
Messing DCN	3306 and 5432	TCP	
FAX Driver	1007 and 1008	TCP	

Table 2-1 shows the port ranges used in different system configurations.

Table 2-1 End Point Port Range

IPedge Server Address	End Point IP Address	RTP Port Range for the MRS [1]
Public	Public	27000 ~ 27999 [2]
	Private (NAT)	27000 ~ 27999 [2]
Private	Public	21000 ~ 26999 [3]
	Private behind remote NAT	21000 ~ 26999 [4]
	Private	27000 ~ 27999 [2]
	Private behind local NAT	27000 ~ 27999 [2]
Set the MRS connection mode to Manual during NAT traversal and SIP/SIP Trunk.		21000 ~ 26999 [3]

1. RTP connection as ‘seen’ from the end point.
2. MRS internal port range is 27000 ~ 27999. This range is fixed.
3. MRS External port range is programmable. The range is 21000 ~ 26999.
4. MRS External port range is programmable. The range is 21000 ~ 26999.

Important! When the “IPT Data Auto Connection to MRS” is set to “Auto,” the IPedge system will determine whether the IPT is placed inside NAT or not, and generate appropriate SDP.

If the IPedge system is unable to determine whether the IPT is placed inside NAT or not, (for example; if you hear one-way audio) set IPT Data Auto Connection to MRS” is set to “Manual.” This will ensure that the MRS is used for the IPT connections.

INTERNAL SYSTEM PORTS

Table 2-2 is a list of ports used by the IPedge system. Do not assign any of these ports to applications such as CSTA.

Table 2-2 Do Not Assign Port List

Port Numbers
20 ~ 23
25
68
90
110
111
123
143
161
162
443
993
1000
1100 ~ 1105
1270
1718 ~ 1720
1935
1945
(Sheet 1 of 4)

Port Numbers
2020
2944
3000
3001
3306
4003
4029
5060
5070
6000
6379
6678
6800
7000 ~ 7009
7577
7583
8005
8009
(Sheet 2 of 4)

Port Numbers
8080
8100
8443
8444
8445
8767
8768
9101 ~ 9103
9443
9999
10000
10030
10100 ~ 10103
10200
10201
12000 ~ 13791 (TCP)
12000 ~ 14511 (UDP)
(Sheet 3 of 4)

Port Numbers
13000 ~ 19999
20023
20161
21000 ~ 26999
27000 ~ 29999
30000 ~ 30999
40000 ~ 40003
40005
40006
41088
54445
(Sheet 4 of 4)

Notes:

IPedge Net signalling port for originator node should be known to open firewall in advance.

Groups and services list are subject change.