



TCP and UDP Ports Used by SynapSense System

Applies to:	SynapSense ports
Objective:	This Technical Note serves as a reference of all TCP and UDP ports used in the SynapSense system.
Pre-Requisites:	SynapSense™ software version 5.3 or later running on Windows™ operating systems.

Description

The following table lists all the TCP and UDP ports required by the various SynapSense™ applications.

Performing the Procedure

PORTS USED FOR EXTERNAL COMMUNICATION

Application	Default Port Number	Comments
Gateway-Device Manager	10001	Port is used by Device Manager to communicate to Wireless Gateways(s)
SynapSense™ Web Console	8080	HTTP access to SynapSense™ webconsole. Port is configurable to either 8080, 8443 or any other unused port on the server.
SynapSense™ Web Console	8443	Optional: HTTPS access to SynapSense™ webconsole. Port 8443 is used as the default port for SSL communication with the Web Console. This port is configurable.
SynapSense™ Livelmaging	9091	HTTP access to SynapSense™ Livelmaging server.
GW Management	80	Browser interface to manage the SynapSense™ Gateway.
Alert notifications via E-mail (SMTP)	25	Optional: Email alerts
SNMP Traps	162	Optional: SNMP Service
SNMP Agent	161	Optional: SNMP Service
BACnet Gateway	47809	Optional: BACnet Module
Modbus/TCP (Gateway/Plugin)	502	Optional: Modbus Module

PORTS USED FOR INTERNAL COMMUNICATION

Application	Default Port Number	Comments
MySql	3306	MySQL
SynapSense™ Web Console	8080	HTTP access to SynapSense™ webconsole. This port is configurable by the customer.
SynapSense™ Web Console	8443	Optional: HTTPS access to SynapSense™ webconsole. This is the default port and is configurable by the customer.

Application	Default Port Number	Comments
SynapSense™ Livelmaging	9091	HTTP access to SynapSense™ Livelmaging server.
jBoss	3783	jBoss application in the SynapSense™ server.
jBoss JNP	1099	jBoss Java Naming Protocol
jBoss JNP	1098	jBoss Java Naming Protocol
Device Manager RMI	2000	Device Manager Service
SNMP Agent Notification	1620	Optional: SNMP Service
BACnet Gateway RMI	1100	Optional: BACnet service

The diagram below shows the components of the system and how the above ports are used to communicate between the components.

