

DASDEC™/One-Net™/AMS TCP/IP Port Table

Introduction

The DASDEC and One-Net flexible emergency message platforms support a variety of communication protocols for receiving alerts and transferring alert information between devices. The Audio Management System (AMS) utilizes similar Transmission Control Protocol/Internet Protocol (TCP/IP) to communicate and exchange information. Many security and vulnerability concerns are reduced by controlling the specific “ports” available on a TCP/IP network. In most cases these are done by configurations within the network’s firewall/router configuration allowing only the assigned ports to pass data.

This document shows which TCP/IP ports the DASDEC/One-Net/AMS uses to provide various functions.

Service	Port	Description
HTTP	80	Standard web portal
HTTPS	443	Secure web portal
Email	25	Email without authentication
Email	587	Email with authentication
FTP	21	Turned off for inbound, connection used with some outbound EAS-Net™ transfers
SSH	22	Secure Shell (Turn on only if allowing outside firewall access)
EAS-Net	21, 22	DASDEC to DASDEC, or DASDEC to other IP device communications (Uses SSH and FTP)
Telnet	23	Disabled on DASDEC/One-Net
Fox® Splicer™	80	Message text transfer only
UDP	123	Network Time Protocol (NTP)
FEMA IPAWS CAP Server	443	Uses HTTPS communications
CAP server	?	Varies by type and communication protocols
Printing	631	CUPS - Common UNIX Printing System
SCTE-18 (DVS-644)	?	User configurable (default is 5050)
DVS-168	4098, 21	User configurable Default is 4098 for TCP and 21 for FTP
MPEG – 2/4	?	User configurable (Used only when the MPEG2-4 option board is installed)
TCP	80	R190/R190A/R197/R198 network based switching
TCP	9100	DataProbe™ iPIO-8
Audio Streaming	8000	Used when streaming radio/audio inputs or stored audio files over network
UDP	2049	For Network File System (NFS) interface to AMS
TCP	2049	
UDP	111	
TCP	111	
UDP	137,138	For Windows™ Server Message Block (SMB) interface to AMS
TCP	137,139	
TCP	445	

Quick summary:

- A firewall would need to minimally allow ports 80, 443, 25, & 587 for regular use by DASDEC/One-Net.
- Add Port 22 if SSH from outside the firewall is allowed. (Generally this would not be the case, but it depends on the system e.g. DASDEC to DASDEC over EAS-Net would need to pass SSH).
- The AMS may need ports 80 & 443 as well as additional TCP and UDP ports depending on file system interface requirements.