

Updating Certificate Authority Files For One-Net™/DASDEC™ EAS/CAP Devices (2020 Edition)

The One-Net and DASDEC EAS/CAP devices can use a special digital certificate provided by FEMA to validate the authenticity of IPAWS sourced CAP alerts. These certificates are designed to expire at a specific date and time, requiring the issuing authority to issue new certificates from time to time.

The current FEMA certificate will be expiring on October 28, 2020. FEMA recently issued a newer certificate which means IPAWS users should update their equipment before the October 28, 2020 expiration date. Not updating the certificate may result in the error message: “Event Log:Digital Signature VERIFICATION ERROR : Signer UNTRUSTED! Check for correct CAP decoder CA file.,” or not processing valid IPAWS alerts.

To update and change the Certificate Authority (CA) file within the EAS device (One-Net or DASDEC):

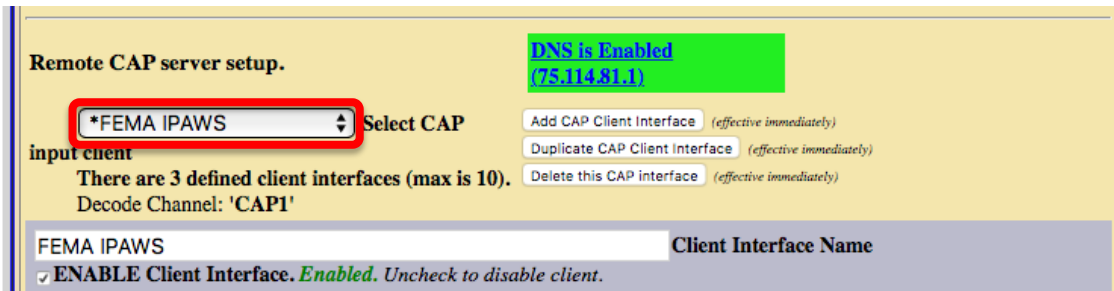
IMPORTANT NOTE for Firefox Users: The link in Step 1. below may not work correctly. Return to the page http://www.digitalalertsystems.com/DAS_pages/resources_fsb.html to find the alternate CA file download link.

1. Download the current certificate authority file **IPAWS_Valid-until-8-21-2021.crt** from here:

https://www.digitalalertsystems.com/download/IPAWS_Valid-until-08-21-2021.crt

NOTE: This certificate will also be expiring in August of 2021, however, we must wait until FEMA issues the next certificate to replace this one.

2. Navigate to the **Setup > Net Alerts > CAP Decode** screen
3. Select the CAP configuration for IPAWS from the **Select CAP input client** pull-down menu.
(Note: The name may differ from the one shown below.)



Remote CAP server setup. DNS is Enabled (75J14.81J)

*FEMA IPAWS Select CAP input client

There are 3 defined client interfaces (max is 10).
Decode Channel: 'CAPI'

Add CAP Client Interface (effective immediately)
Duplicate CAP Client Interface (effective immediately)
Delete this CAP interface (effective immediately)

Client Interface Name
FEMA IPAWS
<input checked="" type="checkbox"/> ENABLE Client Interface. <i>Enabled. Uncheck to disable client.</i>

(continues on next page)

- Scroll down and enable the **View Advanced Options** checkbox. The advanced options will appear.

Poll CAP from IPAWS Open 2.0 Server.
 ✓ Connected (up 3:29:03) Last alert info at Thu Aug 6 13:09:01 2020'

IPAWSOPEN provides access to national and localized CAP formatted EAS alerts. Enter the web host address (without https or http, eg. apps.fema.gov and you must have DNS enabled). A default IPAWS URL path and internal manufacturer specific PIN is provided. Admin users can view and edit the URL path and other options under Advanced option setup.

https:// apps.fema.gov / IPAWSOPEN_EAS_SERVICE/rest/update
CAP IPAWS server host address **URL path** Do NOT begin with http(s)://website.net/. Just the path (eg: cap / alerts.xml), without a leading / character. If a dynamic date and time is required in the URL, see notes below.*

View Advanced Options (uncheck to remove view).

Pin type Preassigned IPAWS Pin User configurable Pin No Pin

Use Secure connection. Enabled. Uncheck to use non-secured connection.
 Ignore SSL certificate checking. Presently SSL certificates must verify. Check to ignore certificate.

Optional Text to append to URL

Accept unsigned alerts. Disabled. Check to accept unsigned alerts.
 Accept unverifiable signed alerts. Disabled. Check to accept unverifiable signed alerts.

XML Digital Signature Certificate Authority (CA) Name (upload below.) IPAWS_Valid-until-10-28-2020.crt CA Information

Delete CA file

- Scroll to the bottom of the page to find the appropriate installation dialog box as shown below:

Version 3.x	Version 4.x
<p>Upload Certificate Authority file to DASDEC Server.</p> <p>Choose File no file selected</p> <p>Upload Certificate Authority file</p>	<p>Certificate Authority Bundle Installation</p> <p>Choose File no file selected</p> <p>Upload Certificate Authority file</p>

- Click **Choose File** and select the recently downloaded file: **IPAWS_Valid-until-8-21-2021.crt**
- Click **Open**. The screen should now appear as shown below

Version 3.x	Version 4.x
<p>Upload Certificate Authority file to One-Net Server.</p> <p>Choose File IPAWS_Valid-unt...08-21-2021.crt</p> <p>Upload Certificate Authority file</p>	<p>Certificate Authority Bundle Installation</p> <p>Choose File IPAWS_Valid-unt...08-21-2021.crt</p> <p>Upload Certificate Authority file</p>

- Click **Upload Certificate Authority file** button. When the file is successfully installed the screen will display...

Version 3.x	Version 4.x
<p>Upload Certificate Authority file to DASDEC Server.</p> <p>Choose File no file selected</p> <p>CA File Upload Succeeded.</p> <p>Upload Certificate Authority file</p>	<p>Certificate Authority Bundle Installation</p> <p>Choose File no file selected</p> <p>CA File Upload Succeeded.</p> <p>Upload Certificate Authority file</p>

- Scroll back up the page and in the **View Advanced Options** area locate the **XML Digital Signature Certificate Authority (CA) Name** then, using the pull-down menu, choose the **"IPAWS_Valid-until-8-21-2021.crt"** selection as shown below.

View Advanced Options (uncheck to remove view).

Pin Type Preassigned IPAWS Pin User configurable Pin No Pin

Use Secure connection. Enabled. Uncheck to use non-secured connection.
 Ignore SSL certificate checking. Presently SSL certificates must verify. Check to ignore certificate.

Optional Text to append to URL

Accept unsigned alerts. Disabled. Check to accept unsigned alerts.
 Accept unverifiable signed alerts. Disabled. Check to accept unverifiable signed alerts.

XML Digital Signature Certificate Authority (CA) Name (upload below.) IPAWS_Valid-until-08-21-2021.crt CA Information

Delete CA file

- Click the **Accept Changes** button at the bottom of the screen.

Accept Changes Cancel Changes

END