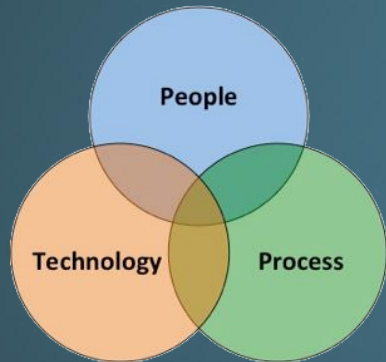


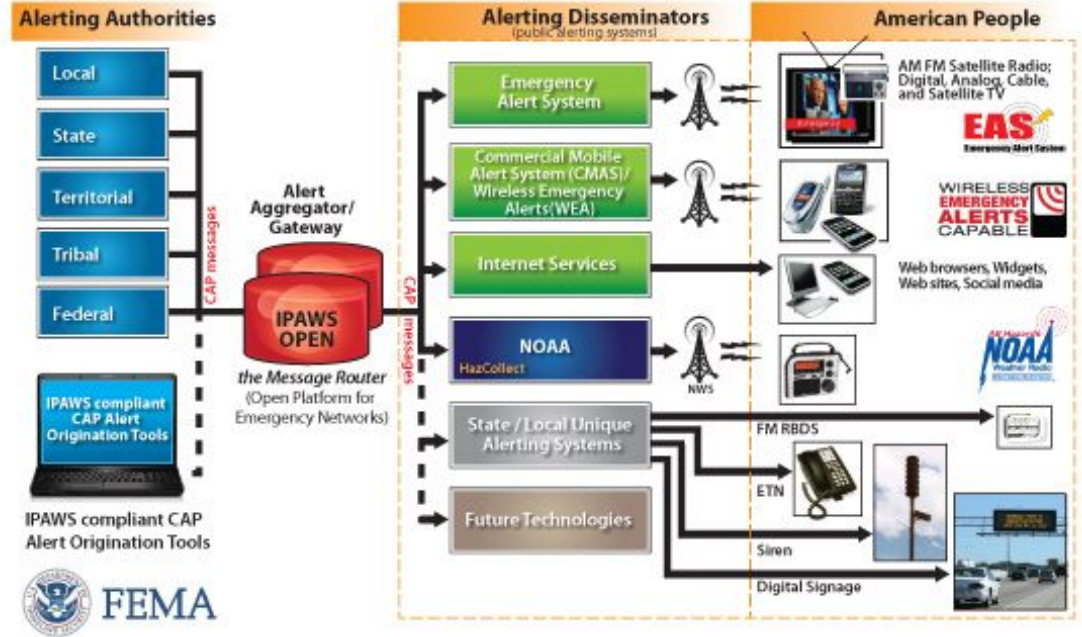
IPAWS Emergency Alerting System

An effective system is made from people, processes and technology. This overview shows the technology component, and specifically the user interface provided by the AlertSense IPAWS alerting tool. This tool allows emergency teams to send alerts to the FEMA/IPAWS system.



IPAWS Architecture

Standards based alert message protocols, authenticated alert message senders, shared, trusted access & distribution networks, alerts delivered to more public interface devices

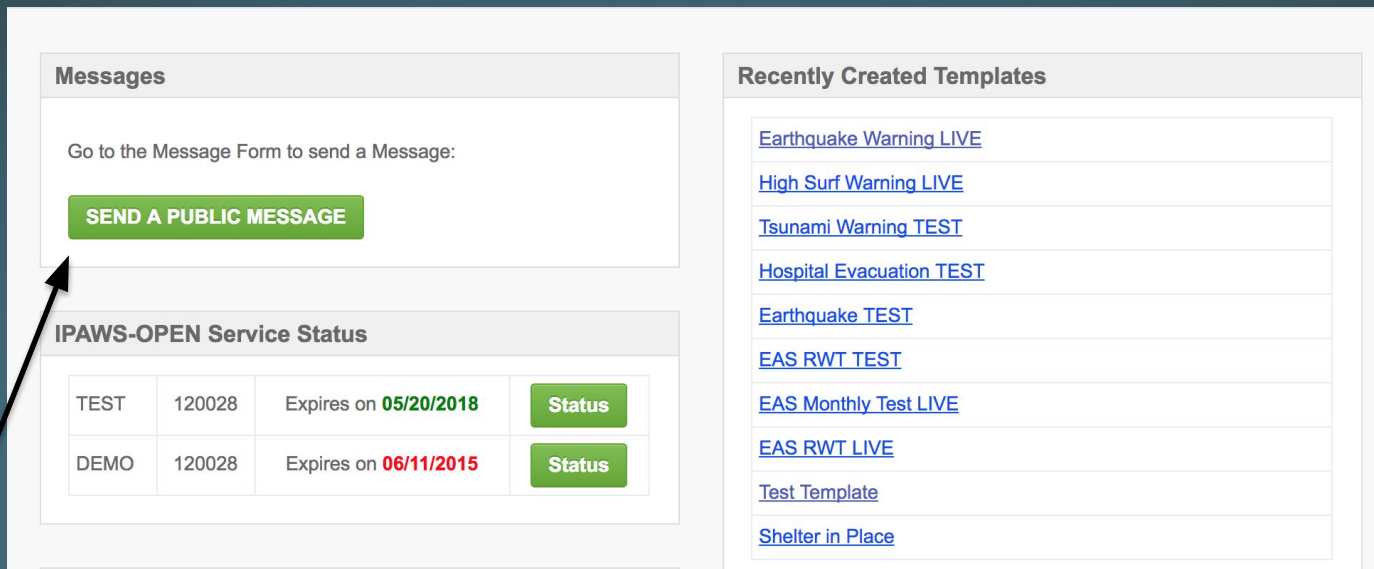


IPAWS Experience

Once logged into the system, this Dashboard is shown.

The user can review recently created templates, history, verify connection to IPAWS and initiate a public message.

Since this system is permission based, some users may see more information than others.



The screenshot displays the IPAWS dashboard interface. It features two main sections: 'Messages' and 'Recently Created Templates'. The 'Messages' section includes a prompt to go to the message form and a prominent green button labeled 'SEND A PUBLIC MESSAGE'. Below this is a table titled 'IPAWS-OPEN Service Status' with two rows of data. The 'Recently Created Templates' section lists various message templates as blue links.

IPAWS-OPEN Service Status			
TEST	120028	Expires on 05/20/2018	Status
DEMO	120028	Expires on 06/11/2015	Status

Recently Created Templates
Earthquake Warning LIVE
High Surf Warning LIVE
Tsunami Warning TEST
Hospital Evacuation TEST
Earthquake TEST
EAS RWT TEST
EAS Monthly Test LIVE
EAS RWT LIVE
Test Template
Shelter in Place

Step 1:
Select Send A Public Message

Create Public Message

Selected Template: Earthquake Warning LIVE

Save New Template Update Template Delete Template

Message Type

IPAWS-OR

***TEST TEMPLATES**

- Earthquake TEST
- EAS RWT TEST
- Hospital Evacuation TEST
- Tsunami Warning TEST

LIVE TEMPLATES

- Earthquake Warning LIVE

Message Settings

Regardless of the previous selection, the user is brought to a 2nd page in the system, which provides the alerting form necessary to complete the message.

Templates provide a convenient starting point for alerts and they can be organized into different groups. The emergency alerting team names and organizes templates in accordance with their specific needs, use-cases and processes.

If a template is selected, the form is pre-populated with everything that was saved in that template, including endpoint (demo or live), communication channels and other message options.

Step 2:
Select or Verify Template

Templates

Selected Template:

Message Type

IPAWS-OPEN Endpoint: ?

EAS ?

WEA ?

Message Settings

Event Type: ?

Response Type: ?

Duration: ?

Change Advanced CAP Fields ?

EAS / NWEM: Broadcast Message Content

Event Headline: ?

Event Description: ?

EMERGENCY ALERT SYSTEM
2018 EFFECTIVE UNTIL 8:30PM MST

A CIVIL AUTHORITY
Issued an
Earthquake Warning

The system supports both 'practice' (demo) and 'live' scenarios. Practice alerts can help the team maintaining their skills. Treating them seriously insures that team members are well versed in their own processes and familiar with the software system.

Regardless of whether a template is used as a starting point, and regardless of whether the alert is practice or live, the next steps are to modify, review and verify the message type, message content and other settings for the specific scenario.

Step 3:
Verify Message Type (demo or live)

Step 4:
Complete the Message Settings section

Recommended Instructions **Seek shelter if needed. TEST ONLY** ?

Audio Message [Preview Text to Speech](#) ?
[Select Existing File](#)
[Upload File](#)

**A CIVIL AUTHORITY
Issued an
Earthquake Warning**

CAP to EAS Translation:

A CIVIL AUTHORITY HAS ISSUED AN EARTHQUAKE WARNING FOR THE FOLLOWING COUNTIES/AREAS: NO AREA AT 7:30 PM MST ON JAN 16, 2018 EFFECTIVE UNTIL 8:30PM MST. Message from . TEST ONLY EARTHQUAKE WARNING. SEEK SHELTER IF NEEDED. TEST ONLY


WEA: Mobile Phone Content

Auto Generated Text Message **Earthquake Warning in this area until 8:30PM MST** ?
Execute Action

Edit Text Message ?

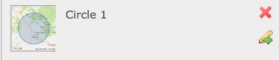
Text Message **TEST ONLY Earthquake Drill** ?

26 of 90 characters used.



Target Area

Area Description ?

Geographic Area  Circle 1

[Add Shape](#) ?

FIPS Codes ?

SEND MESSAGE

System operators review and edit all information before sending the message in a clear and easy **WYSIWYG** (what you see is what you get) format.

Whether for practice or live scenarios, these content preview steps are very important to ensure that the alert message is accurate and formatted correct before pressing “SEND”.


Step 5:
*Create / modify / preview / verify
Message Content and Formatting*

Step 6:
Specify the target area


Step 7:
Click Send Message

CAP to EAS Translation:

A CIVIL AUTHORITY HAS ISSUED AN EARTHQUAKE WARNING FOR THE FOLLOWING COUNTIES/AREAS: NO AREA AT 7:30 PM MST ON JAN 16, 2018 EFFECTIVE UNTIL 8:30PM MST. Message from . TEST ONLY EARTHQUAKE WARNING. SEEK SHELTER IF NEEDED. TEST ONLY

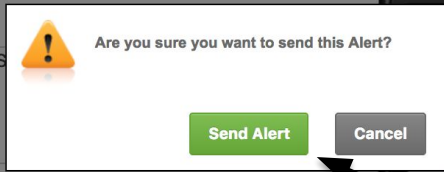
Audio Message [Preview Text to Speech](#) 
[Select Existing File](#)
[Upload File](#)

WEA: Mobile Phone Content

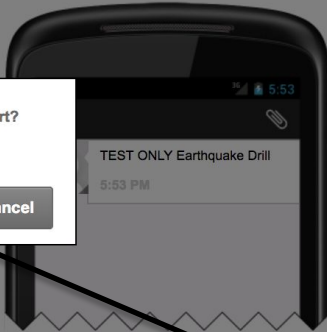
Auto Generated Text Message Earthquake Warning in this area until 8:30PM MST 
Execute Action

Edit Text Message


Text Message




26 of 90 characters used.



Target Area

Area Description 

Geographic Area  Circle 1  

[Add Shape](#) 

After completing the form, and pressing “SEND MESSAGE” a third confirmation dialog is presented. This dialog is presented such that the underlying form and previews are still visible.

After the message has been reviewed, the user confirms that the message is to be sent by clicking “SEND ALERT” in the pop up window.

Send Alert will send the message to IPAWS for dissemination to the channels selected.

Cancel will take the user back to the form for further review.

Step 8:
Click Send Alert
As final confirmation

AlertSense IPAWS software is regarded by FEMA as one of the most intuitive and easy to use in the industry, but software is only one component of an effective public emergency alerting system.

FEMA requires that emergency management teams are trained on proper procedures before they're allowed to use any IPAWS software.

Training includes instructions for how to cancel and retract messages in cases of human error.

Processes that emergency alerting teams can use to help prevent human errors:

- Treat every practice alert like the real thing. It's a powerful system, be careful!
- Require review and approval by a 2nd person before sending any alert.
- Templates are the responsibility of the emergency alerting team. Clearly name and organize any templates that are created/used, and make sure operators are trained on them.
- Have a plan for false alarms and human error in case they occur.