



Integrated Public Alert and Warning System (IPAWS) Overview for Association of Contingency Planners

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FEMA Mission Statement

“FEMA’s mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards.”

- ▶ “This mission statement describes our priorities as emergency managers and highlights the role we play as one member of the larger national response team – a team that includes our tribal, state, local, and federal partners as well as the private sector, faith based groups, and the general public.”

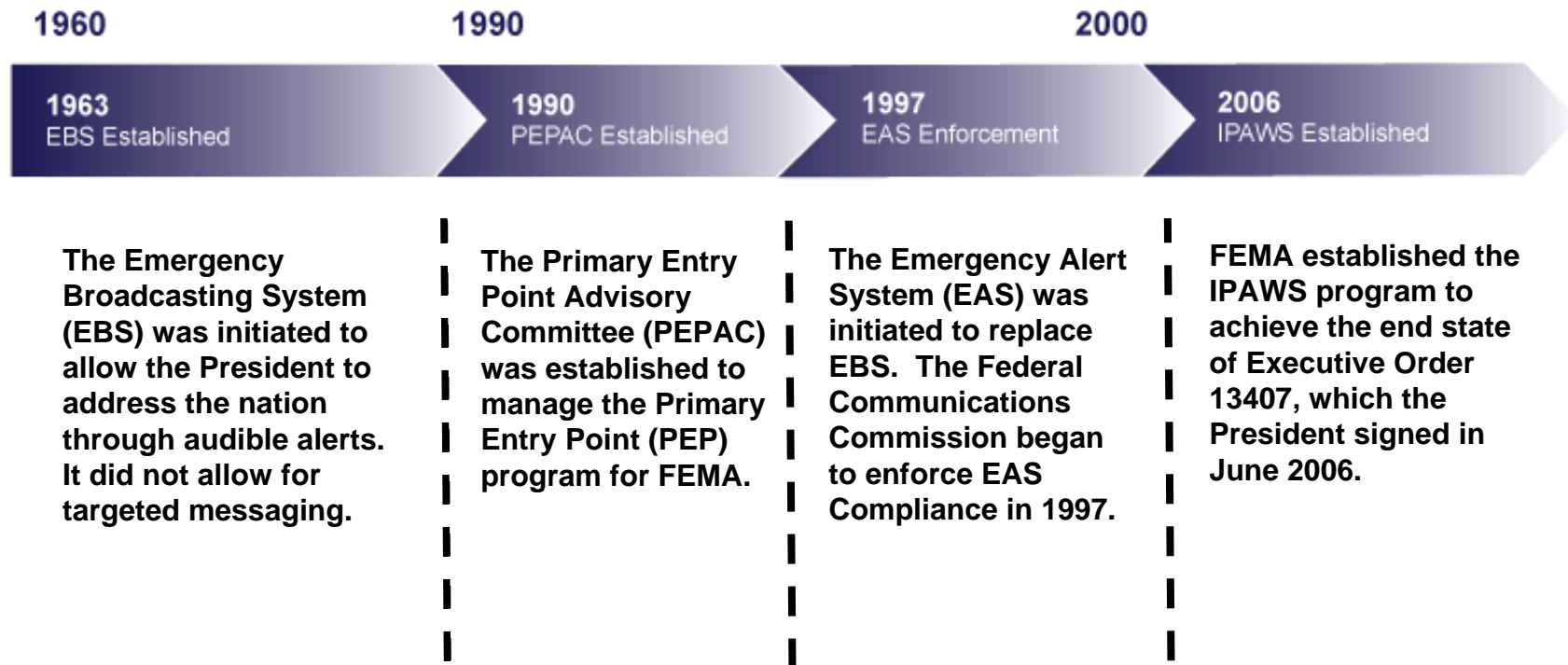
- W. Craig Fugate, 17 June 2009



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The nation's alert and warning system continues to evolve from over forty years ago

A Bit of History



“IPAWS is...to have an effective, reliable integrated, flexible, and comprehensive system to alert and warn the American people in situations of war, terrorist attack, natural disaster or other hazards to public safety and well being.” – Executive Order 13407

IPAWS was Created to add new Technologies, Cover More Population and Reach Multiple Communities

- ▶ IPAWS is the next-generation of public alerts and warnings
- ▶ IPAWS will take the existing Emergency Alert System (EAS) and add new ways to warn people of threats
- ▶ Our mission is to ensure the President, and State, Local and other emergency managers can warn the public in times of war or national emergency
- ▶ IPAWS will:
 - Support alert and warning capabilities chosen by state and local emergency managers to send alerts to their residents
 - Integrate new alert and warning technologies, e.g. cell phone, Internet, PDAs
 - Support alerts in formats understood by those who don't speak English or who have disabilities



The IPAWS Vision Points to an Interoperable and Flexible System

To build and maintain an effective, reliable, integrated, flexible, and comprehensive system that enables the American people to receive alert and warning information through as many means as possible.

The IPAWS will provide the President the ability to address the American people in situations of war, terrorist attack, natural disaster, or other hazards.

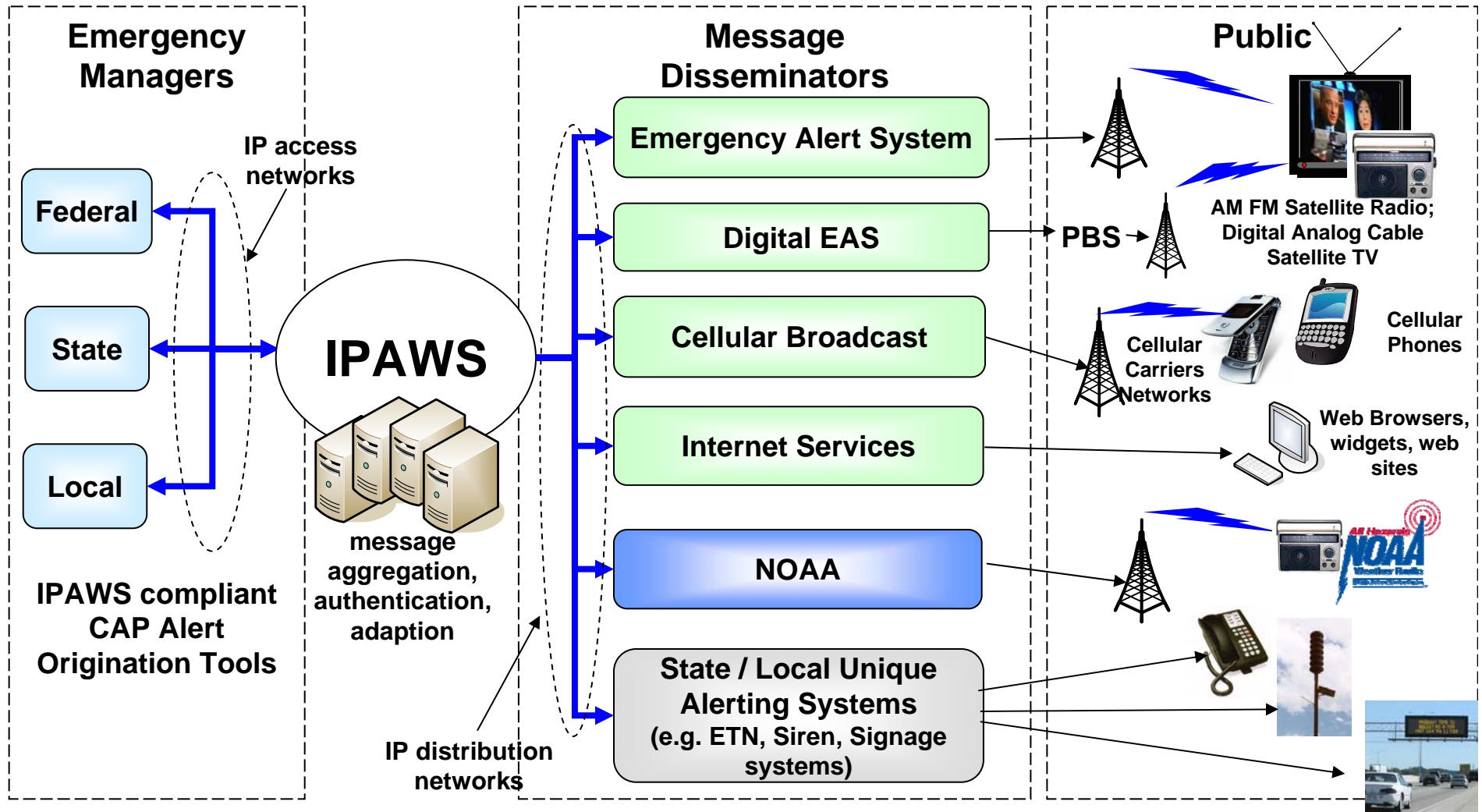
The IPAWS will provide local, state, and federal alert and warning authorities integrated services and capabilities enabling them to alert and warn their respective communities, via multiple communications methods of any hazard impacting public safety and well-being

The IPAWS will:

- Ensure that alert and warning messages can reach the public through as many means as possible
- Expand, diversify, and modernize the EAS
- Create an interoperability framework thru by establishing or adopting standards such as the Common Alerting Protocol (CAP)
- Enable alert and warning to those with disabilities and those without an understanding of the English language
- Integrate with and provide federal, state, and local alert and warning message access to multiple broadcast and other communications pathways
- Partner with NOAA to enable seamless integration of message transmission through National Weather Radio networks



IPAWS Vision Architecture



A Number of System Level Projects Will Realize the Vision

- ▶ Standards and Protocols – for interoperability across Alert and Warning systems
- ▶ EAS Modernization and Expansion – for increased coverage of population centers
- ▶ Commercial Mobile Alert System (CMAS) – to reach more consumer devices and to target warnings to specific disaster areas
- ▶ Federal partnerships with NOAA and the National Weather Service (NWS) – for integration with other federal alerting agencies
- ▶ Inventory and Evaluation – to catalog state and local capabilities to prepare for increased integration
- ▶ Let's focus on one specific project area... Standards and Protocols



Standards and Protocols are an Important Component of IPAWS' Success

- ▶ The IPAWS system will use the Common Alerting Protocol
- ▶ CAP is a non-proprietary data exchange format that can be used to transport emergency information between alerting systems
 - Developed by Organization for the Advancement of Structured Information Standards (OASIS)
- ▶ CAP can also be used to collect all types of hazard warnings and reports locally, regionally and nationally
- ▶ The OASIS IPAWS CAP Profile constrains CAP to ensure the interoperability of CAP between IPAWS and its Exchange Partners
- ▶ Before FEMA adopts the CAP Profile, FEMA will evaluate the OASIS CAP Profile to see if it is sufficient for the needs of the EAS community



IPAWS Has Chosen to Work with OASIS to Complete the IPAWS CAP Profile

- ▶ Why the Organization for the Advancement of Structured Information Standards (OASIS)
 - ▶ Natural home for a CAP Profile since CAP is an OASIS standard
 - Open and Transparent Process
 - Public Comment periods
 - Non-profit organization
 - No Federal Advisory Committee Act (FACA) concerns
 - Federal Government, Emergency Management Practitioners, and Industry can openly participate
 - Free and publicly available standards
 - ▶ Practitioner and Industry Involvement
 - Participation and Input in the OASIS process
 - Will draw on best practice
- ▶ **Targeted announcement date for adoption of IPAWS CAP Profile is January 2010**



Standards Tentative Timeline

Activities	CY2009			CY2010				CY2011	
	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	
IPAWS Standards Phase I	OASIS IPAWS CAP v1.2 Profile								
	OASIS CAP v1.2 Standard			OASIS CAP v2.0 Standard					
	FEMA IPAWS CAP-to-EAS Implementation Guide Requirements		OASIS CAP-to-EAS Implementation Guide			Implementation Guide – FCC Rulemaking*			
	IPAWS Conformity Assessment Program Phase I							CA Phase II	
IPAWS Standards Phase II		IPAWS CAP Profile Updates CAP Implementation Guide Updates • Multiple Languages • Special Needs • Video Messages	CAP Profile – FCC Part 11 Rulemaking* • Network Management • Video Messages CAP Implementation Guides – FCC Part 11 Rulemaking* • Network Management • Video Messages						
IPAWS Standards Phase III	EDXL-DE Message Security								
	Federated Identity Management – FEMA Enterprise IMS								

* Or Alternate Strategy for Enforcement

Jan 2010 – FEMA adopts CAP v1.2 Standard, CAP v1.2 Profile, and CAP-to-EAS Implementation Guide

Jan 2011 – FEMA IPAWS meets industry needs for Standards and Protocols

I look forward to your questions, comments and suggestions.



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