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International Telecommunication Union

Multi-Tool CAP-Based Alert and Warning System

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OASIS

ITU-T/OASIS Workshop and Demonstration of Advances in ICT Standards for Public Warning
Geneva, 19-20 October 2006

Our goal: 100% notification plan

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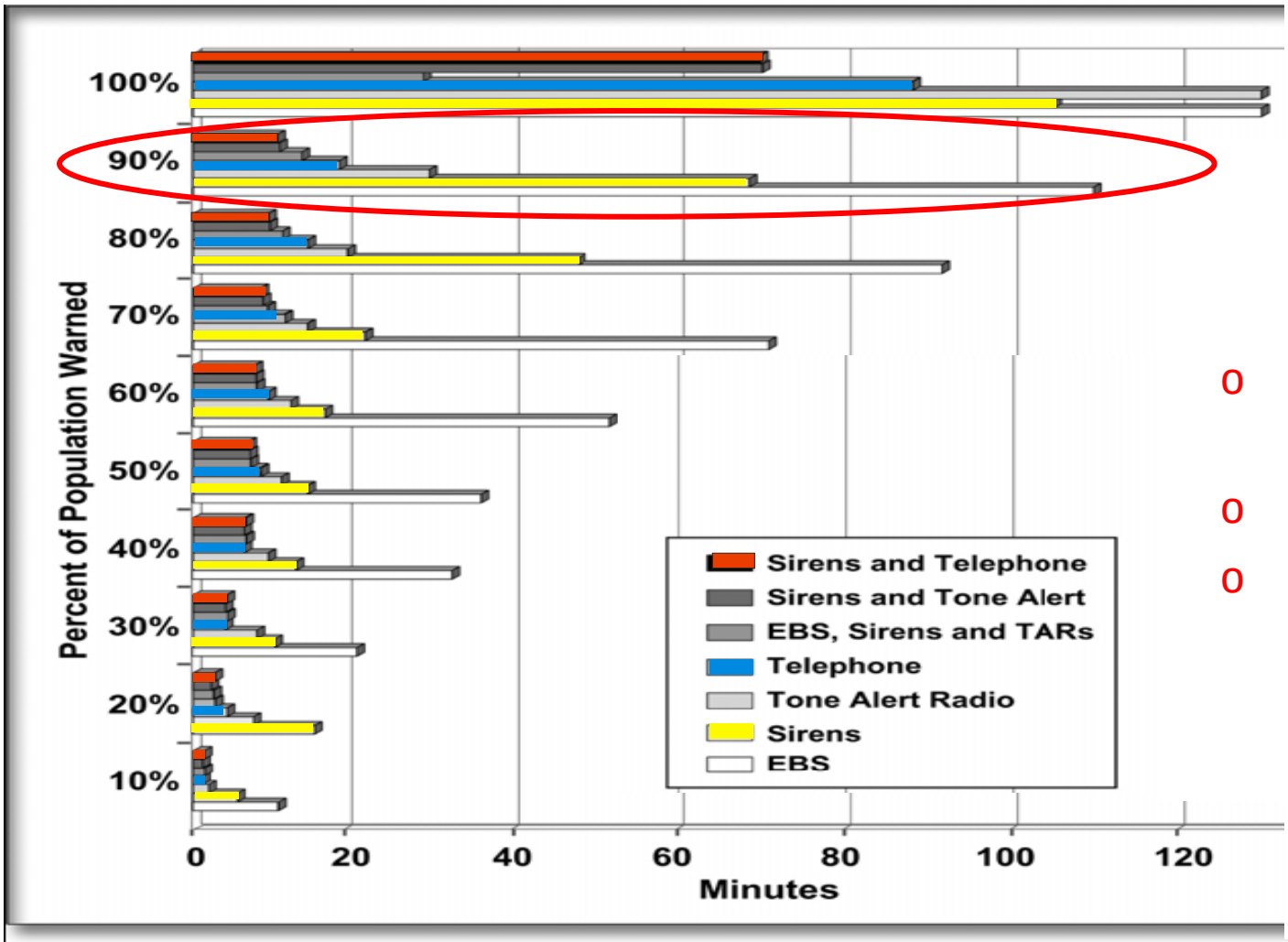
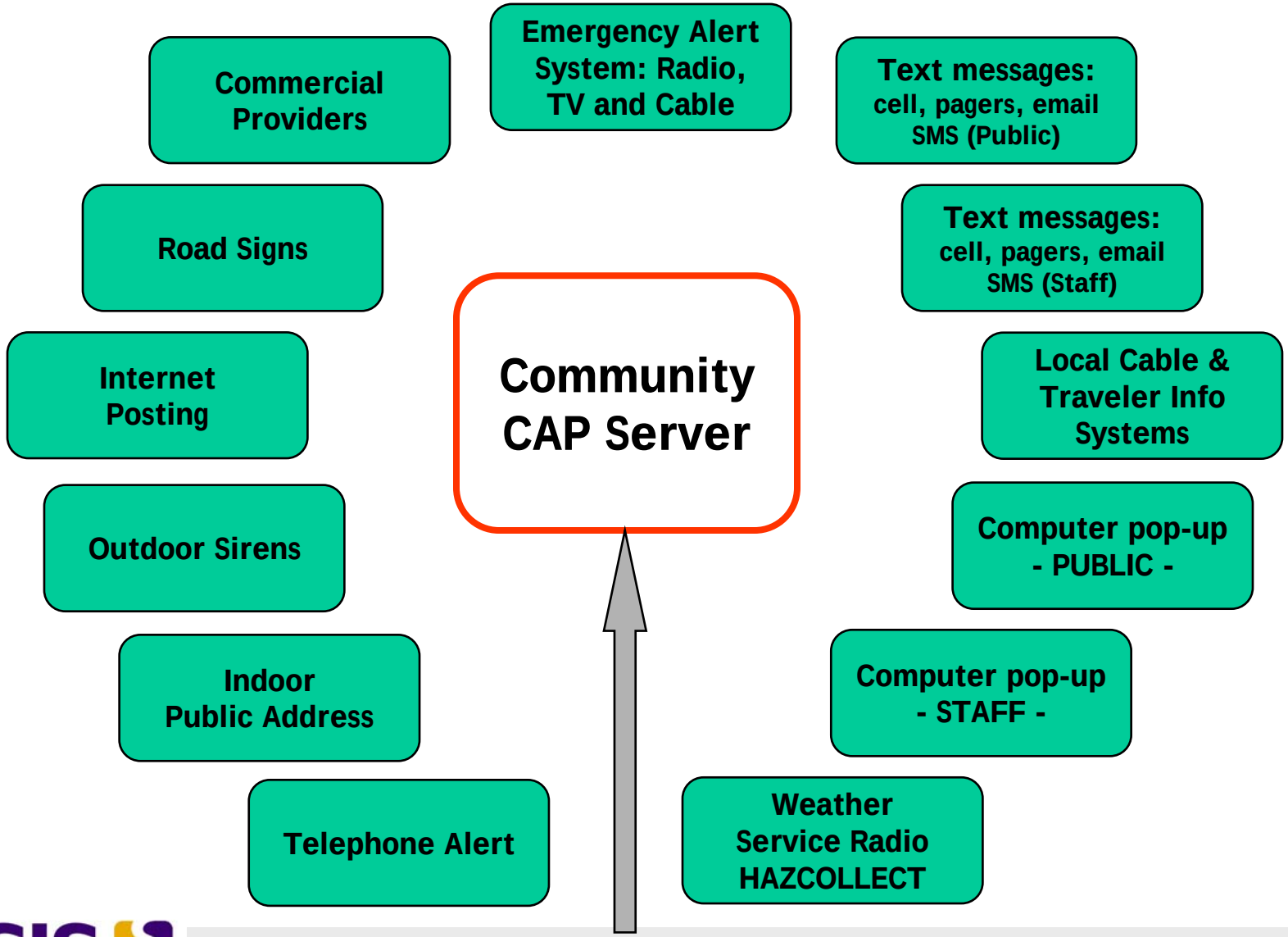


Using each single combination will alert 90% of the population after:

- Radio broadcast – 110 minutes
- Phone – 20 minutes
- Sirens and phone – 12 minutes

The Warning Toolbox



The CAP Stack of Cakes

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Radio Broadcast Activation

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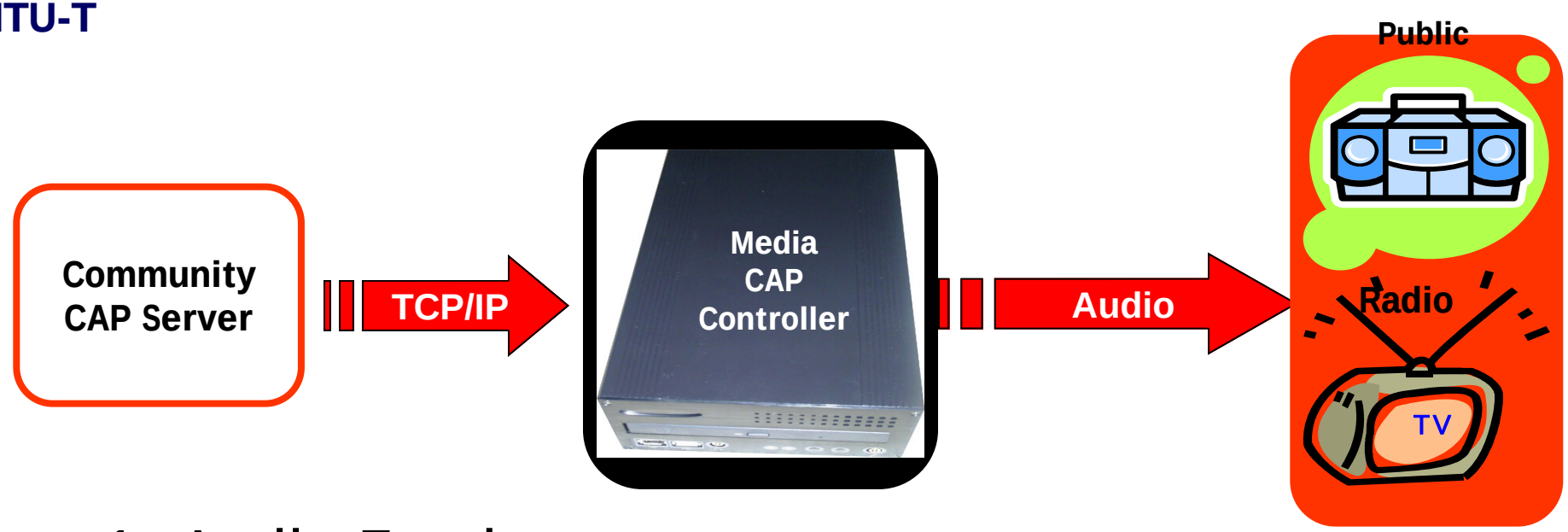
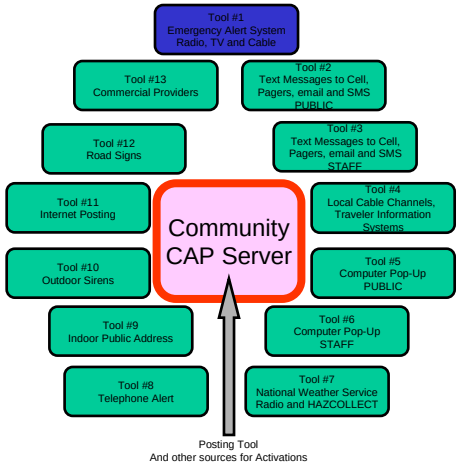


1. Audio Feed
2. “Rip and read” printout
3. Multimedia files
4. Text to speech file
5. Detailed log files plus contents



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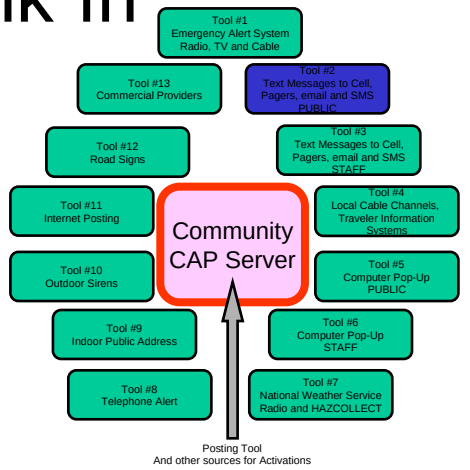
Cell, Pager, PDA, Email and SMS

- Anyone can register to receive alert messages, and customize:
  - Area (s)
  - Preferences
- The EAS alerting website can be advertised in publications, and posted as a link in community websites.
- Example for a public sign-up tool:



Public Sign-up Tool

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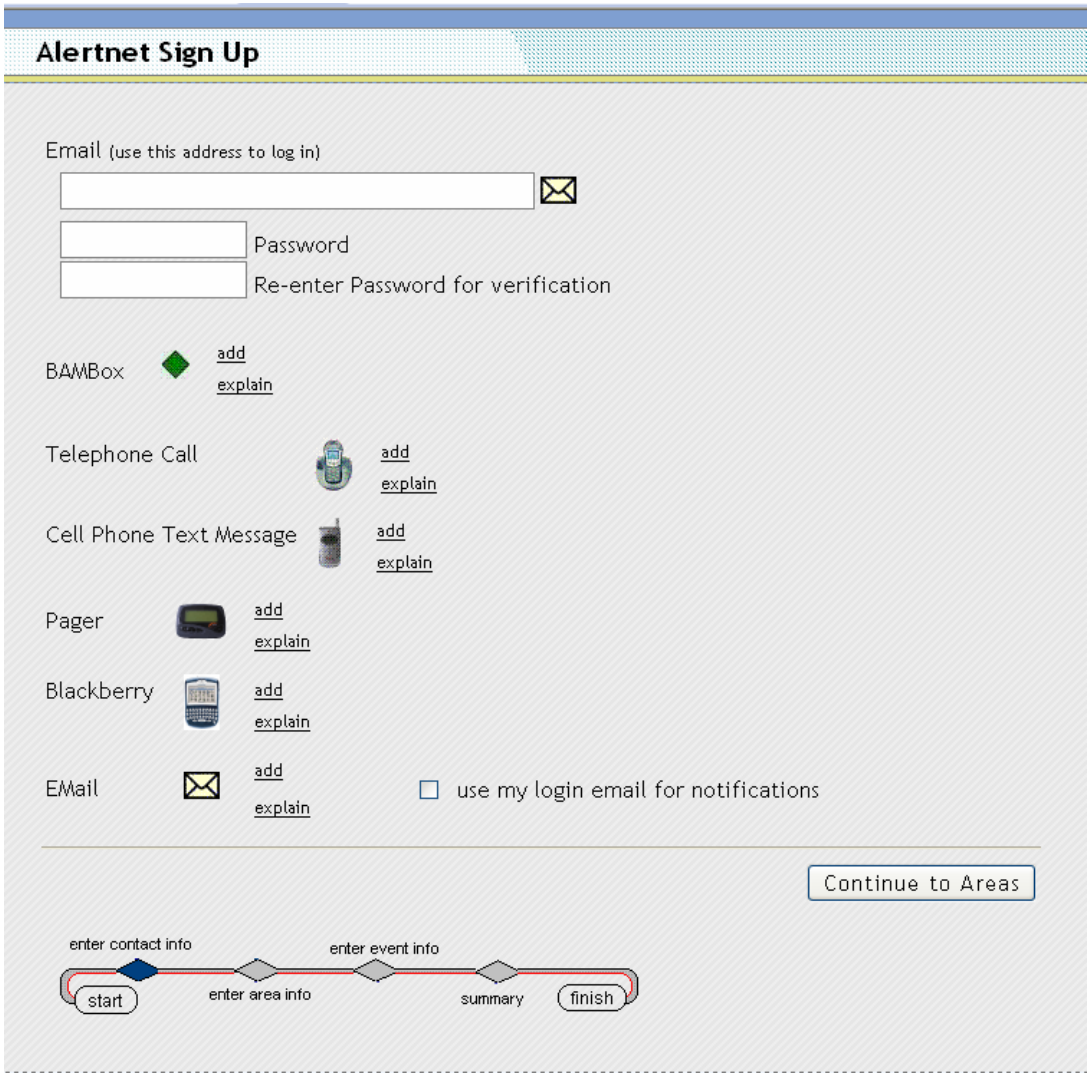

Traffic Information System (TIS)

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Community CAP Server

Internet

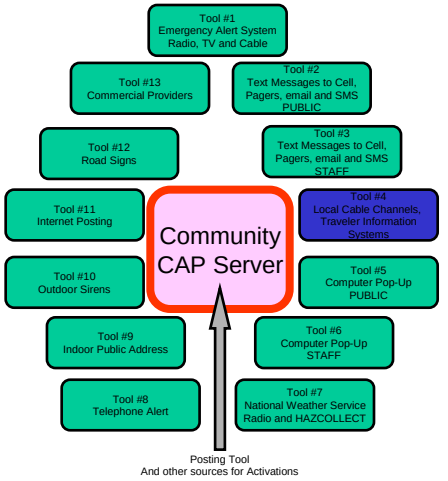
Media CAP Controller

Audio

URGENT
IF FLASHING

EMERGENCY INFO

TUNE AM RADIO TO 930



Broadcast Alert Message Pop-up

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E SEVERE HAZARD IN YOUR AREA!

San Francisco

Community Warning System

ALERT MESSAGE

Message Type: Actual

Sent on: April 19, 1906 11:06 AM PST

Regarding:

FIRE WARNING

Situation:

Gas pipes damaged by earthquake

Instructions:

Burning of either gas or electric currents, even where possible, is forbidden. During the fire citizens must get along with other light, as no chances could be taken for a renewed outbreak of flames.

No fires are to be lighted in stoves or grates anywhere lest the chimneys should be defective as a result of the earthquake.

Telephone Emergency Notification

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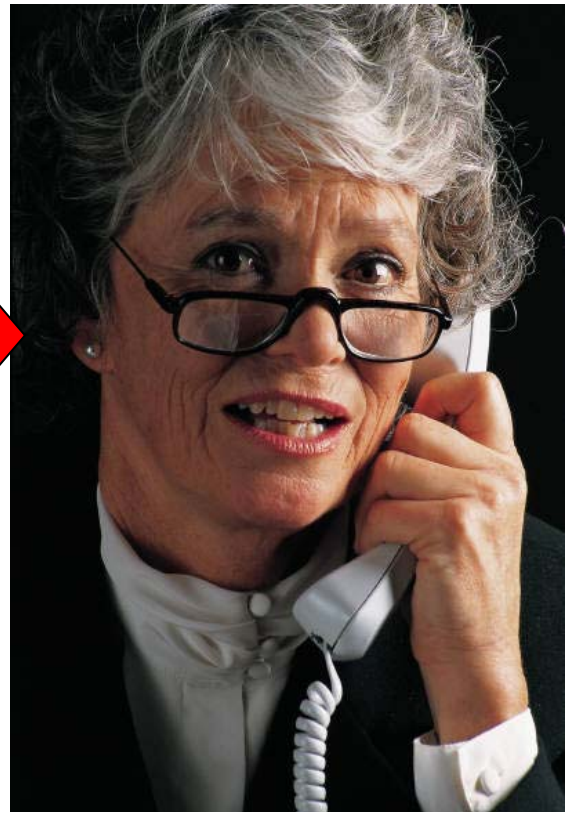
Community CAP Server

Telephone Emergency Notification System (TENS)



Indoor Public Address Systems

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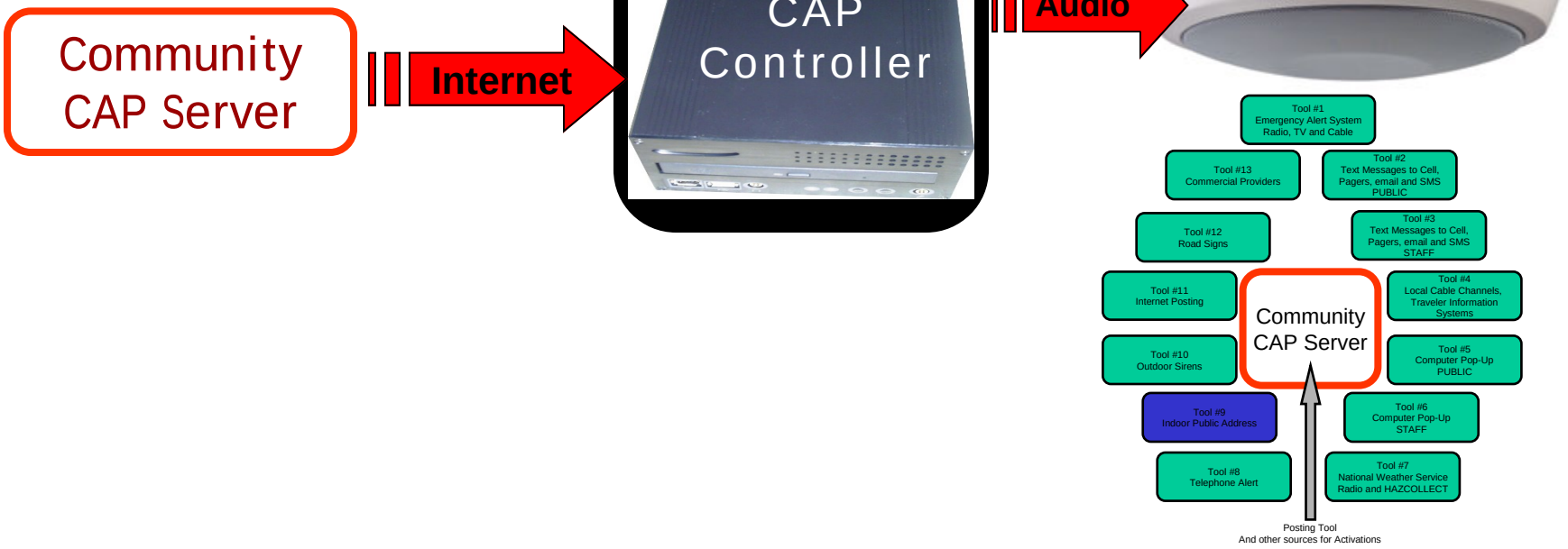
- Shopping centers
- Public buildings
- Office complexes
- Agencies



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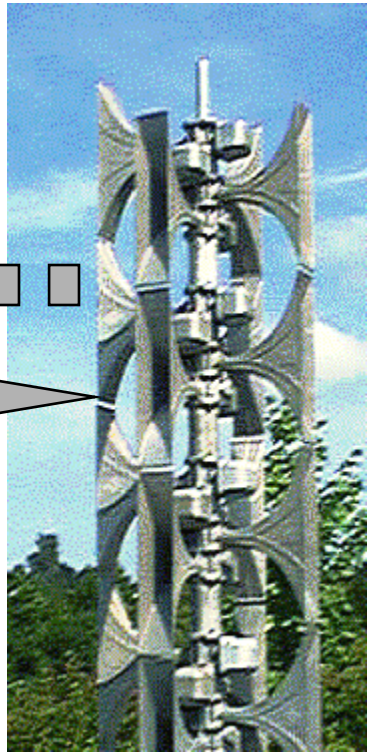
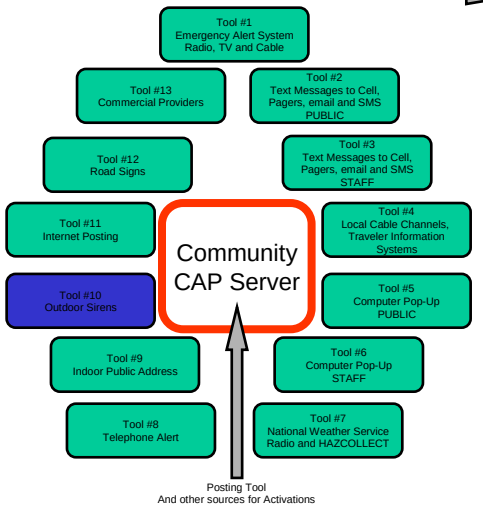
Sirens

CAP Enabled Siren

Community CAP Server





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Sirens

CAP Enabled Siren

Road Signs

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Activation

Community CAP Server

Text Message

Public Feed Web Site

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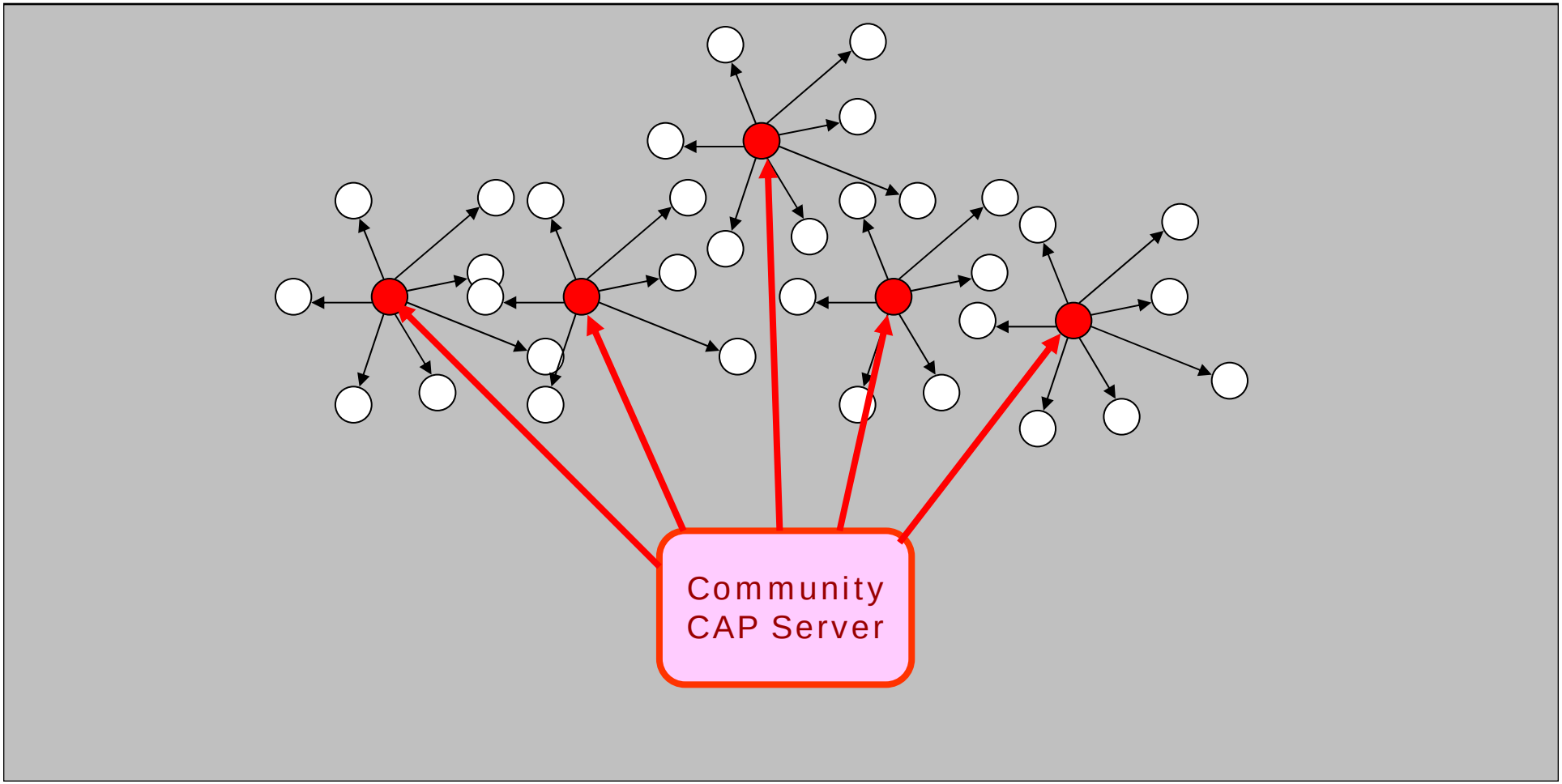
Other Providers - Clients

Commercial providers can tap the emergency warning system public database, and push information to subscribers with value-added content.



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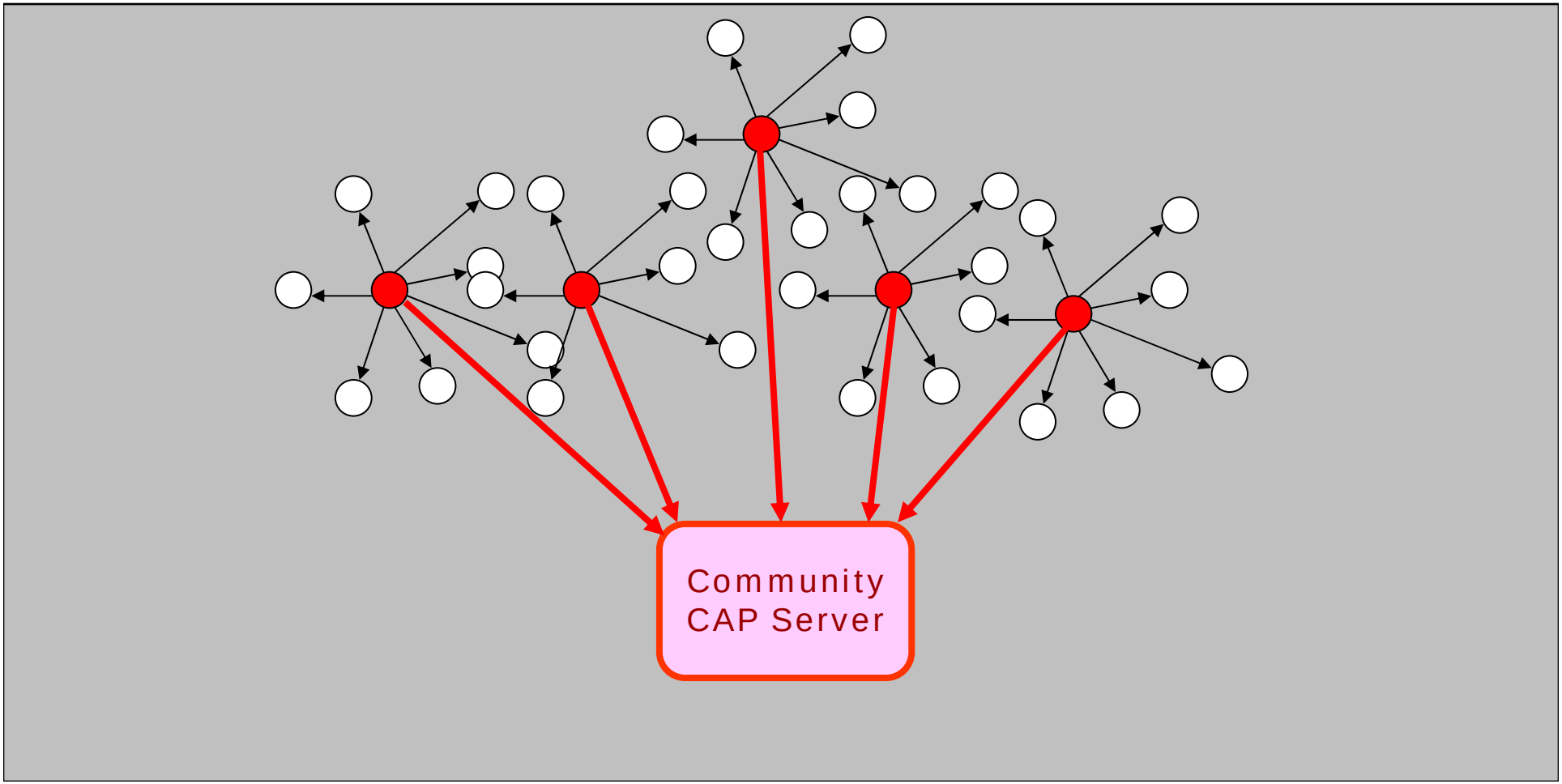
Other Providers - Sources

Other sources are monitored, and approved alert messages will be distributed to the staff and/or the public automatically.



Integration with Other Systems

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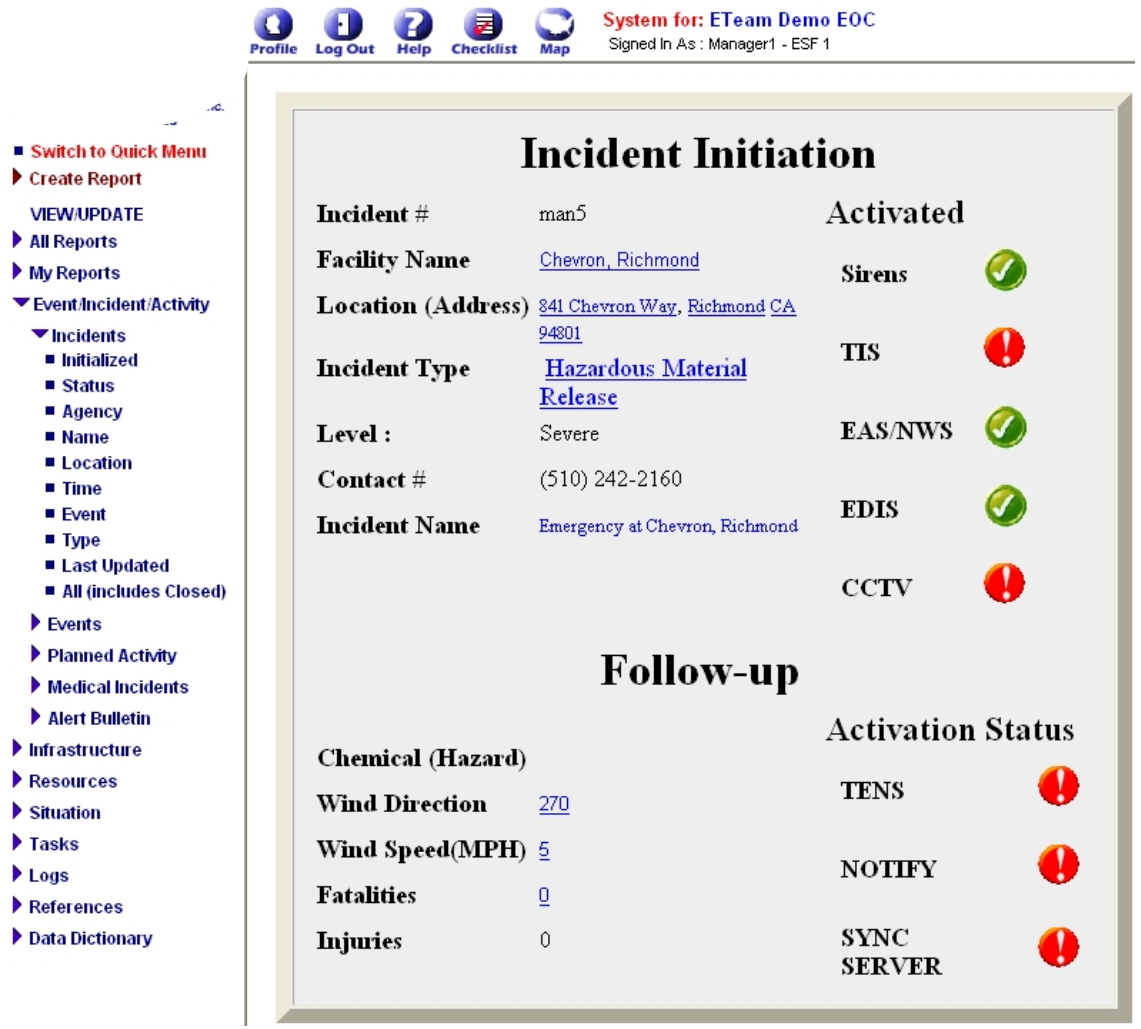

Example: California EDIS 2006

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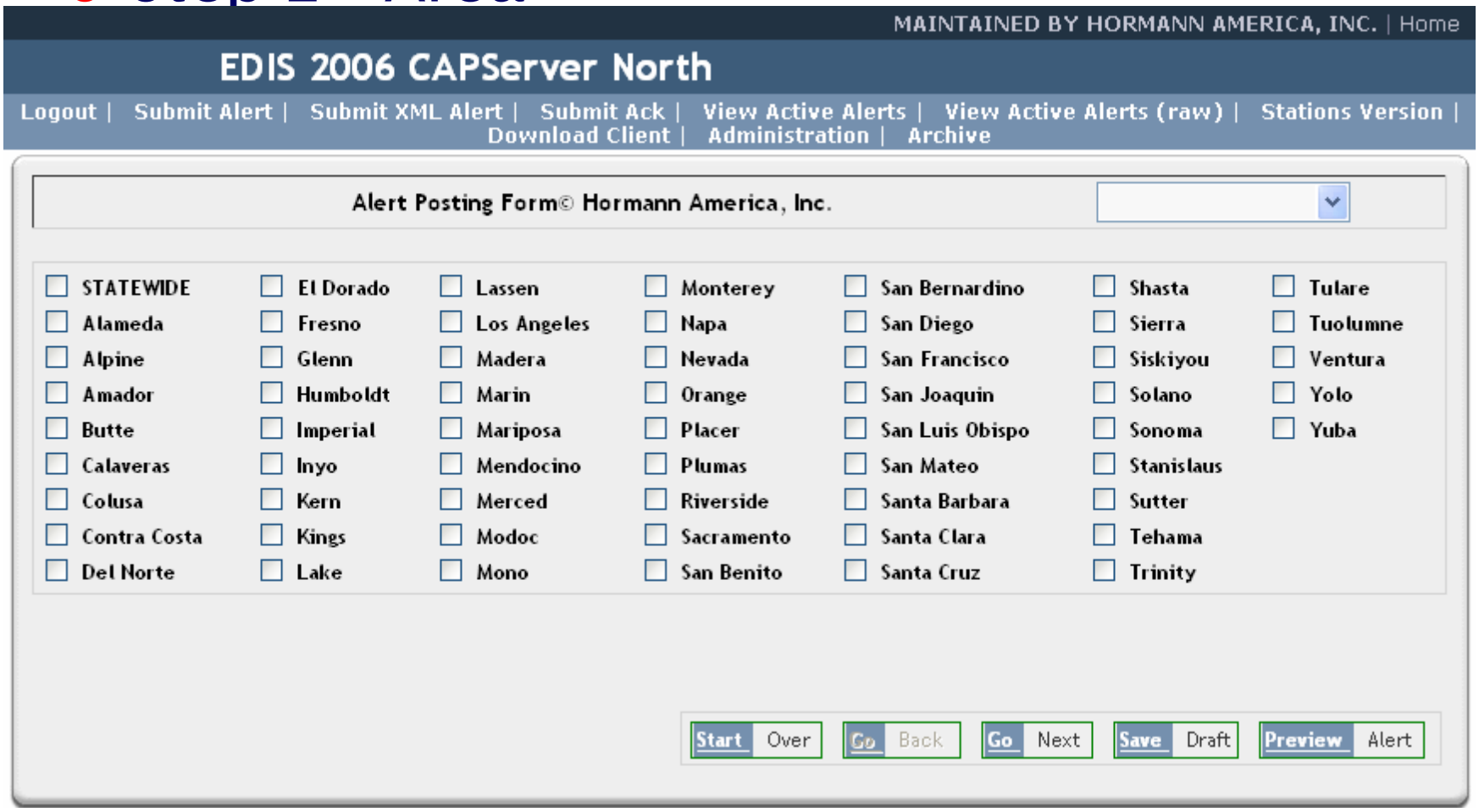
- Step 1 - Area



Example: California EDIS 2006

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- Step 2 - Type

Example: California EDIS 2006

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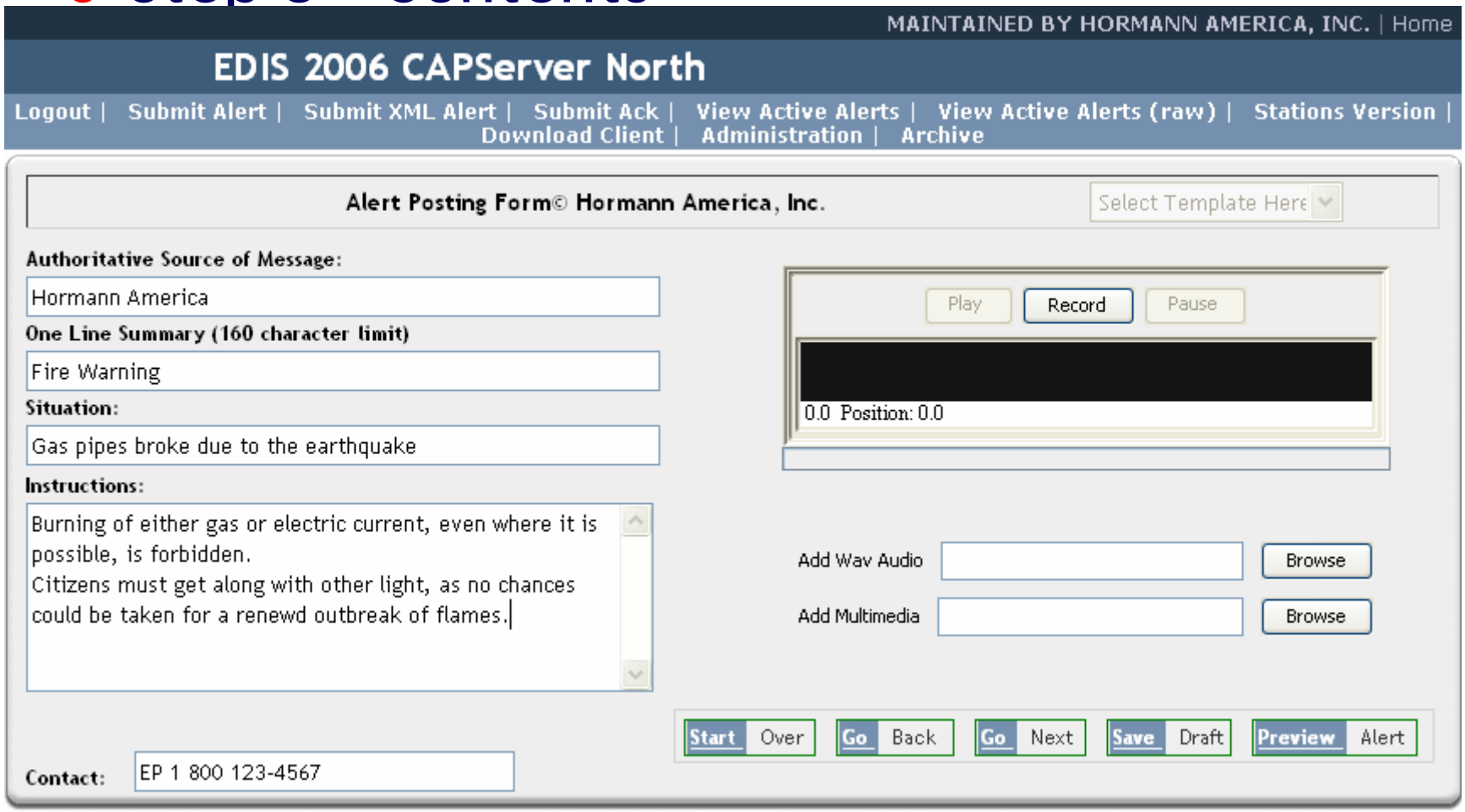
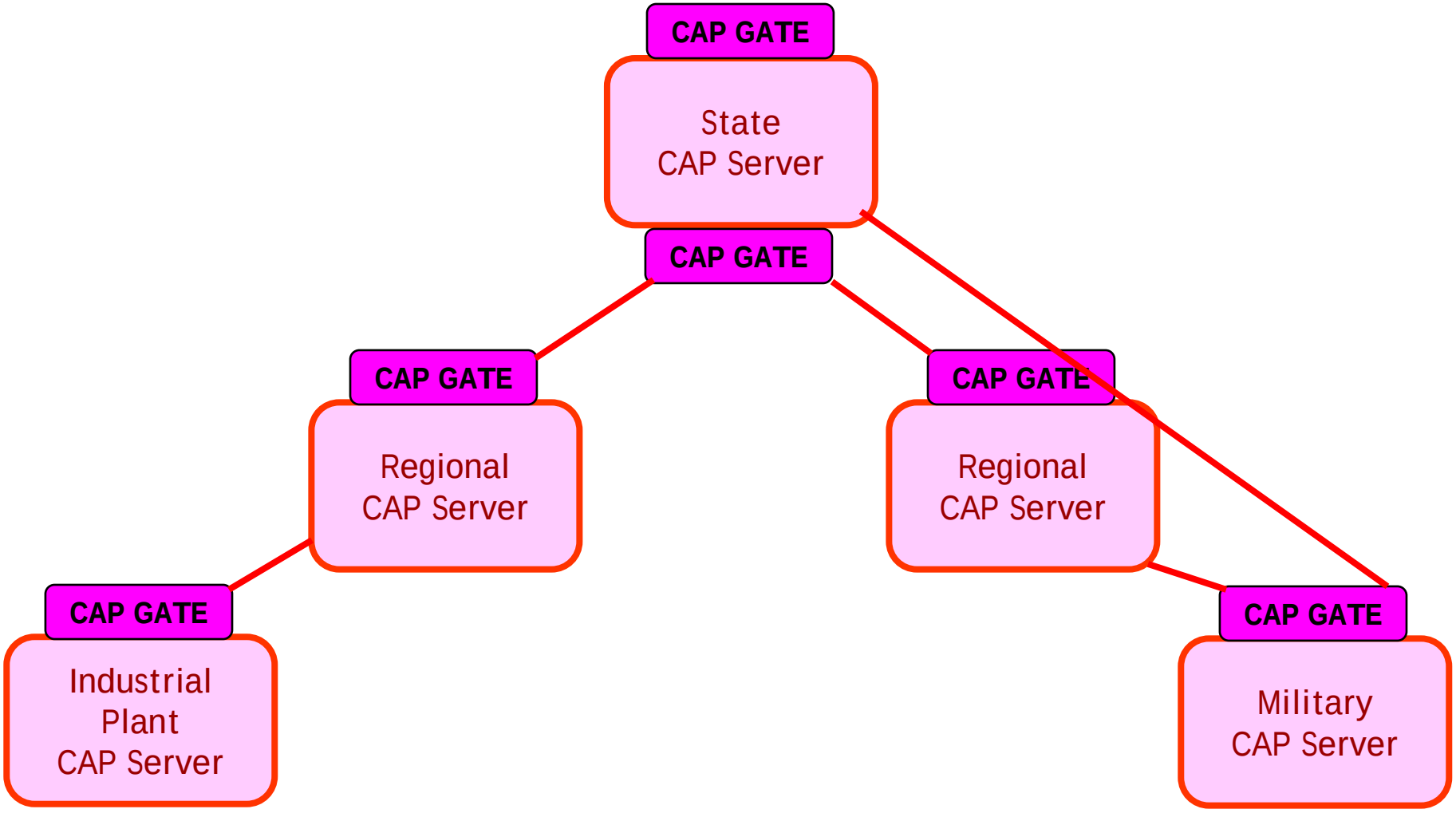
- Step 3 - Contents



CAP Systems


CAP GATE
State
CAP Server
CAP GATE
CAP GATE
Regional
CAP Server
CAP GATE
Regional
CAP Server
CAP GATE
Industrial
Plant
CAP Server
CAP GATE
Military
CAP Server

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Multi-Tool CAP-Based Alert and Warning System

- Thank you