

CASE STUDY FOR

ATMOSPHERIC RIVER-RELATED FLOODING

Unified Emergency Communications During Atmospheric River-Related Flooding

Situation

During December 2022 and January 2023, counties across California experienced multiple flooding, mud slide, and storm-surge events related to atmospheric river conditions. While these moisture plumes or vapor surges are crucial to the water catchment areas along the West Coast in the United States, they also have the potential to create significant and dangerous flooding conditions requiring swift responses from emergency management personnel.

More than **ten of these counties, including Los Angeles, Humboldt, and Santa Cruz**, used the Genasys Protect ALERT and EVAC (formally Zonehaven) solutions to coordinate their responses and communicate critical information to the public



Problem

Over the last five years, unprecedented wildfires scarred thousands of square miles of California forest and rural lands. Combined with atmospheric river weather conditions, California finds itself particularly susceptible to severe flood and mud slide catastrophes.

In these emergency situations, California's public safety professionals need a seamless emergency communications system that is two-fold:

1. To **provide critical** interdepartmental collaboration tools that allow responders to operate safely during and after the event.
2. To **notify the public** of safety and evacuation information.

Solution

The **Genasys Protect Platform** provides a multi-pronged solution:

- **Genasys Protect ALERT** provides intelligent, location-based, multi-channel mass notification with real-time and modeled data, integrated zoning, automated sensor integration, and even optional integration with outdoor acoustic devices.
- **Genasys Protect EVAC** accelerates emergency response and management by facilitating decision making, cross-agency collaboration, and rapid responses through intelligent, zone-based mapping.
- **Genasys Protect ACOUSTICS** provide highly audible and clear voice messaging when emergencies arise, broadcasting long-range emergency response messaging outdoors, even when connections are down and the power is out.
- **Genasys Protect mobile app** provides a single authoritative source for the public during emergencies through seamless notifications, zone-based maps, and real-time resource information.

Through a **single dashboard**, county responders were able to communicate and plan, while staying advised of situations, routing first responders, and notifying their citizens of evacuation information that aided in lifesaving efforts to keep the community safe.

Results

During the unprecedented series of atmospheric river flooding events during the winter of 2022-2023, agency officials in more than ten California counties managed flood advisories, road closures, and shelter operations to safely direct citizens and emergency personnel. These efforts along with the right tools minimized loss of life during a series of catastrophic weather events that will only become more common as global temperatures continue to rise.

Genasys: Global Provider of Protective Communications Solutions

Protecting people and property for over 40 years and covering over 70 Million people in more than 100 countries worldwide, including more than 500 cities, counties and states in the U.S., as well as more than half of all California counties.

