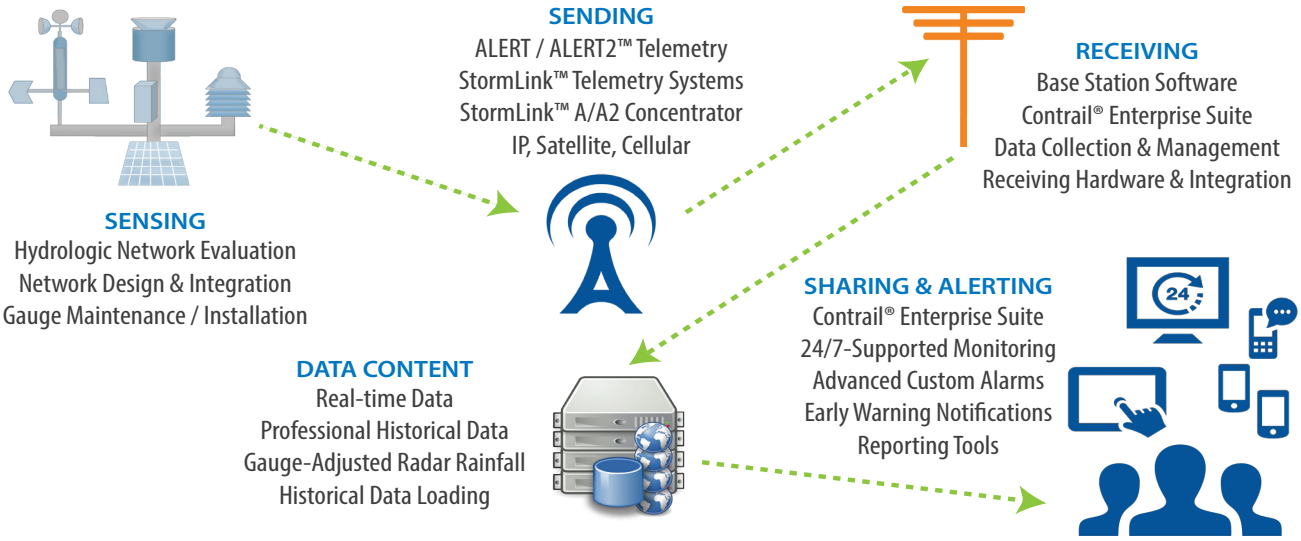
OneRain
The Rainfall Company

Flood Early Warning Systems

Time is of the essence in successful Flood Early Warning Systems



StormLink Satellite Monitoring site near San Carlos, AZ, during The Creek Wiildfire 2013

StormLink™ Monitoring Station with Contrail®

StormLink Monitoring Stations combined with OneRain's **Contrail®** 24/7-supported real-time monitoring, visualization and web-based decision management tool provide early warning to alert first responders, emergency management personnel and downstream communities of the imminent threat of flood and debris flows.

OneRain's StormLink Monitoring Station is a turnkey solution housed in a NEMA enclosure that can be easily and quickly implemented in wildfire burn areas or other flood-prone areas. Configured for either cellular or satellite communications and a pre-programmed data logger, the station is capable of monitoring stage, precipitation, water temperature, float switches, wind speed, wind direction, air temperature, and relative humidity. The station can be powered by either solar panel or AC charger for long- or short-term deployments.

Increase Response Capability

Characterizing the flood-prone area and optimizing the location of monitoring stations is highly important to buy enough time to act and take necessary preparations before the arrival of the flood downstream. Efficient and reliable transfer of data to Contrail increases response capability.

Frequency of real-time data reports and reliable transfer and communications of the data to Contrail, setting the "right" alarms, and automated delivery notifications to appropriate personnel to warn of possible flood conditions ensures time for action.

End-to-End Real-time Monitoring, Early Warning and Response System
Measuring rainfall, river or stream water levels at several points upstream, combined with reliable communications and dissemination of information via Contrail, ensures sufficient lead time for actions that reduce risk, minimize losses, and possibly save lives.

HIGHLIGHTS

- **StormLink™ Monitoring Stations** with RF, satellite, cellular or IP telemetry.
- **Contrail®** software delivers automated real-time data collection, processing, validation, analysis, archiving and visualization…
- **Secure 24/7 web and mobile access** to centralized real-time and historical information via Contrail.
- **Up-to-the-minute decision critical operating data** is presented in easy-to-understand visual information in maps, charts, graphs and tables…
- **Alarm management:** Rules-based advanced alarm management allows you to define exceeded thresholds and specify different actions for each condition. Custom alarm rules can be based on data from multiple sensors at different sites.
- **Alarm status visibility:** View alarms and their current state via map icons, drill-down lists, graphs, and searches. Graphical displays show various alarm and historical thresholds. All alarm activity (active, acknowledged, cleared, etc.) is tracked and archived.
- **Advanced warnings with reliable EAP Alarm Delivery Notifications** via email, text messaging, pager… Choose to have different messages delivered to different people all from the same triggered event. Escalation of alarm conditions or unacknowledged alarm reporting can also be delivered to the appropriate people.
- **Manage Contacts and Groups for Alarm Delivery Notifications:** Easily create and organize contacts and groups for alarm delivery notifications. Contacts can be members of one or more different groups– whether emergency management, maintenance crews, safety responders–whatever makes sense for your organization. And, if you have to, it's easy to replace a contact without affecting established delivery notifications or groups.

OneRain's StormLink™ Satellite Telemetry installed in the Cochiti fire burn area in northern New Mexico. Real-time data is transmitted to OneRain's secure data storage center for web-based viewing, and 24x7 monitoring via Contrail®

The time between the triggered warning and the actual arrival of the flood must be sufficient for time for action.

OneRain
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T: +1 303 774-2033
Toll Free: 1 800 758-RAIN (7246)
Email: sales@onerain.com
www.onerain.com

Experts measuring rainfall and its consequences™