

# OneRain

*The Rainfall Company*

## OUR CORE CAPABILITIES AND EXPERIENCE



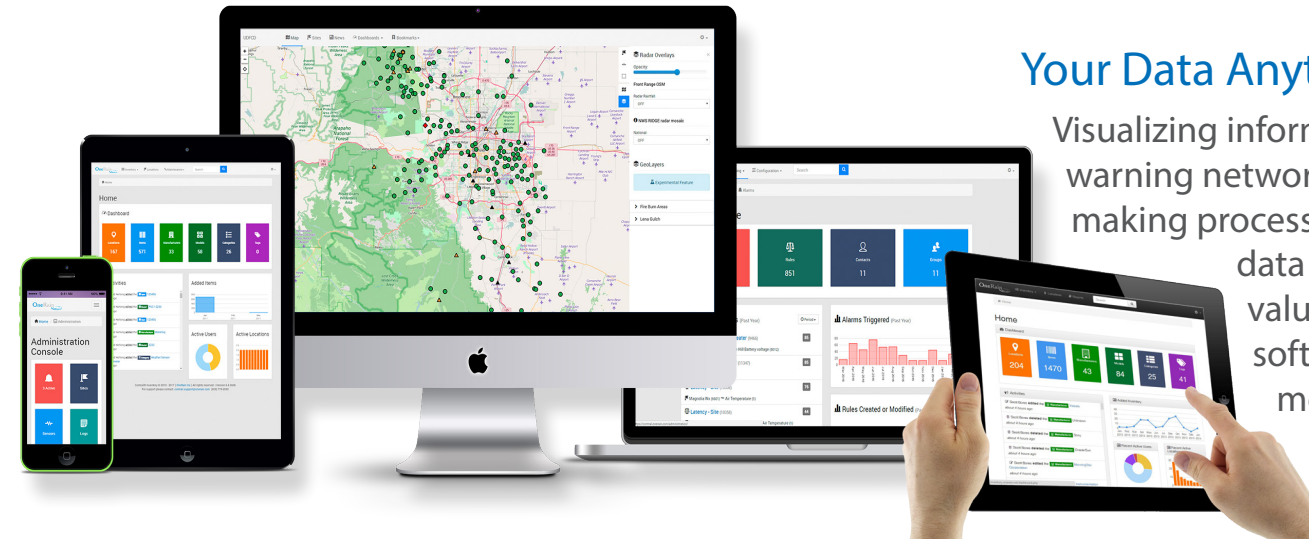
Experts measuring rainfall and its consequences™

OneRain's mission is to provide industry leading solutions that empower our clients to perform their critical missions

www.onerain.com

## Experts in measuring and understanding water

- End-to-end real-time hydrometeorological monitoring systems
- Contrail® 24/7-reliable data collection and management solutions
- StormData™ radar rainfall for real-time and analytical applications
- StormLink® telemetry systems and data services
- Complete hydrologic network design and implementation
- OneRainTech™ Field Services
- Best practices consulting and professional services



## Your Data Anytime. Anywhere. When You Need It.

Visualizing information from your hydrometeorologic and flood warning network in a matter of seconds is critical in the decision making process. Allowing multiple viewers to access real-time data anywhere they can access the web is of even more value. OneRain's easy-to-use data and graphical visualization software tools provide centralized historical and real-time sensor monitoring information with advanced alarm and notification capability.



## Our Total Systems Approach

Since 1992, OneRain has been providing private and public sector clients across the country with solutions to optimize water management, heighten regulatory compliance, achieve successful civil works, and save lives. OneRain has contributed to the fundamentals of the industry in its 25 years of existence and today is helping to shape the next generation of real-time hydrometeorological monitoring technology and systems.

Our vertical involvement in water measurement, from gauges through remote sensing and storm analysis, enables us to collect and distribute the best real-time and historical hydrometeorological data available. We build, maintain and troubleshoot systems that collect data and present information for mission-critical decision making. Today, our products and services serve:

- Flood Warning and Emergency Management
- Dam Safety Monitoring
- Reservoir Operations
- Water Resource Management
- Floodplain Management
- Stormwater Management
- Water Quality
- Irrigation Management
- Post Wildfire Mitigation

OneRain helps agencies create reliable and maintainable hydrologic monitoring and decision support systems. OneRain has designed, built, rehabilitated, and maintains many hundreds of gauges and systems throughout the United States. Our complete systems approach to water management includes nationwide 24/7-supported enterprise data collection, archiving, notification and web visualization services, local on-premise data collection software, rain and other hydromet gauging, field gauge maintenance services, real-time satellite, cellular and IP telemetry services, telemetry system integration, gauge-adjusted radar rainfall data, design storms and storm properties analyses, and professional consulting services.

Our core purpose is to optimize the successful estimation of rainfall and its consequences, both in real time and from a historical perspective.

## Accurate and reliable collection of rainfall and related hydrological data from start to finish >>>

Our customers require the best rainfall estimates. It is OneRain's philosophy that this reality is achieved by creating strong, scientifically-based, replicable data processes. Our data infrastructure focuses on quality and reliability of our input data sources. The best rainfall data today combine well placed, well maintained rain gauge information with expert-vetted, high quality mosaiced radar rainfall information.

There are no shortcuts to data quality. It is a critical task to complete all analyses with the best, most complete information sources available. OneRain is the only company that focuses on **rainfall from end to end**—starting with the rain gauge data collection network and the best mosaiced radar rainfall, and finishing with the best available rainfall estimates.

**Contrail® Enterprise**, our secure, 24/7-supported data services center, is the core of our rainfall data collection and distribution system. Contrail Enterprise continuously collects real-time data from ALERT/ALERT2 networks, direct Internet and satellite data feeds,

and on-line data sources, both public and proprietary, including NEXRAD Radar, USGS, HADS and METAR. Our nationwide radar rainfall data archive goes back to the beginning.

## Contrail® Software

### High Availability Real-time Monitoring, Early Warning and Response

**24x7 web-based and mobile smartphone access to your mission critical data. >>>**

Measuring rainfall, river or stream water levels at several points upstream, combined with reliable and timely communications and dissemination of information via Contrail, ensures sufficient lead time for actions that reduce risk, minimize losses, and possibly save lives.

OneRain's Contrail software platform collects, processes and archives rainfall, flow, stream level, weather station and many other hydrometeorological data from virtually any sensor type and transmission protocol. Contrail supports local ALERT/ALERT2™ line-of-sight radio data, cellular and satellite weather gauge data, as well as any web-accessible sources such as USGS gauges, METAR, TIDES, HADS, RWIS, and more. ...

At the core of Contrail is its 24/7 continuous real-time data collection, monitoring, and advanced alarm and automated delivery notifications that ensures information is automatically distributed quickly and efficiently to appropriate personnel to warn of possible flood conditions. Contrail empowers decision makers and response personnel with critical real-time information through highly customizable alarm rules, communicating response actions, and multiple alert delivery notification options.

## StormLink® Telemetry

### Complete Turnkey Solutions

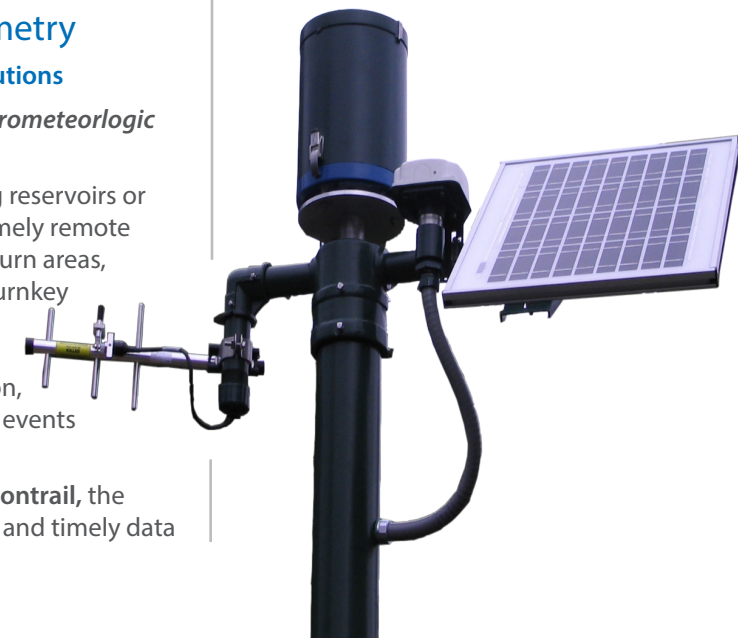
**Remote and on site hydrometeorologic monitoring. >>>**

Whether it's monitoring reservoirs or high risk dams in extremely remote areas, or post-wildfire burn areas, OneRain provides full turnkey solutions that provide automated data collection, dissemination, alarming and triggered events notifications.

Fully compatible with **Contrail**, the system delivers reliable and timely data

via RF, IP, cellular, or OneRain's real-time satellite option that includes airtime data services with guaranteed delivery to a Contrail destination.

*"OneRain helps agencies create reliable and maintainable hydrologic monitoring and decision support systems."*





*"We partner with our customers to deliver solutions that help them achieve their goals and mission success."*

## StormData™

### Gauge-Adjusted Radar Rainfall (GARR)

#### Real-time Data and Historical Analysis Services. ►►►

Gauge-Adjusted Radar Rainfall (GARR) marries rain gauge measurement at a point with the spatially distributed information from NEXRAD radars to give you ground truthed, spatially distributed rainfall information over your area of interest.



**OneRain is unique in having and continuously updating the most complete database of National Weather Service NEXRAD radar available, starting in 1993 to present. Every five minutes, nearly 20 million new radar-rainfall estimates are added to the database.**

OneRain's radar record contains 2-km<sup>2</sup>, 15-minute data from 1993 for most areas. Our national record of 1-km<sup>2</sup>, 5-minute data dates back to 2002. OneRainware radar processing has evolved continuously since 1994 into the data quality management system required to produce archive quality data for flood warning, runoff modeling, I/I studies, litigation, real-time control, design storms and National Pollutant Discharge Elimination System (NPDES) compliance activities.

The data, whether historical, real-time or forecasted, are available to authorized users as part of OneRain's 24/7-supported, hosted Contrail® Enterprise.

### OneRain Professional Services

With a talented team of highly experienced individuals, OneRain draws on our proven experience for the past 25 years to offer a wide range of leading support and professional services to modernize and optimize your water management and hydrometeorological data collection systems. We understand the challenges you face. OneRain's professional services can help you achieve your goals by building solutions that effectively strengthen your water monitoring and analysis capabilities and align technology with process to support data sharing, forecasting, early warning, disaster mitigation, and emergency response.

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The Rainfall Company

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