



Executive Summary

Industry

- Local Government

Environment

- 150 square miles
- 155,000+ people
- 40,000 service connections

Technology Needs

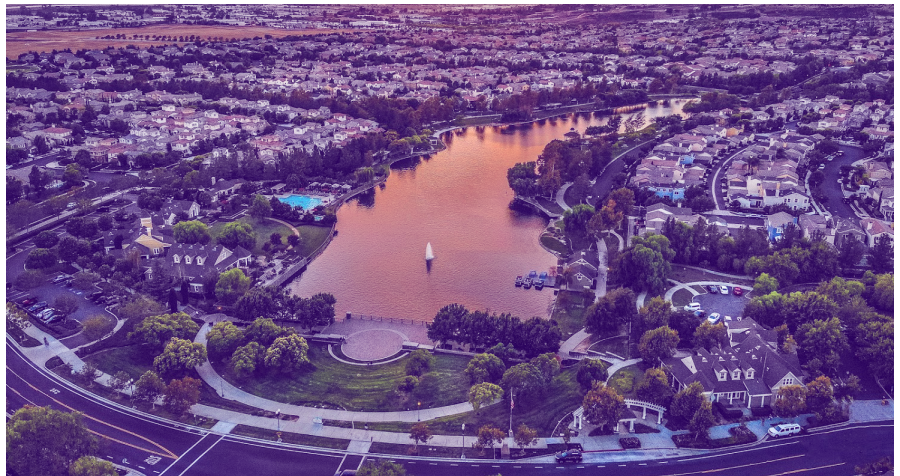
- Eliminate single points of failure and establish redundancy
- Visibility and control at the port or device level
- Ability to protect the environment
- Cost effective options

Extreme Solution Components

- ExtremeSwitching™
- Extreme Management Center™
- EAPS (Ethernet automatic protection switching)

Results

- Established EAPS ring with multiple connections
- Achieved uninterrupted uptime
- Attained a long-term cost-effective networking solution
- Gained the ability to prevent anomalous events on the network



Award-winning Rancho Water Uses Advanced Network to Deliver Innovation and Unmatched Resiliency for Citizens

Rancho Water (RW) in Temecula, California ensures reliable water and wastewater system operations for over 155,000 citizens covering 150 square miles.

In their mission to “deliver reliable, high-quality water and reclamation services to its customers and communities in a prudent and sustainable manner,” RW is highly focused on planning for and meeting the ever-changing water needs of a growing, diverse community.

Rancho Water is also forward thinking with their use of technology. In fact, in 2016, the American Water Works Association presented RW with the Public Communications Award for their outreach program after developing the innovative app, MyWaterTracker and reducing water usage by 28%.

“RW has multiple locations collectively responsible for providing critical resources to the community, and we knew delivering on our mission started with the network.”

**Dale Badore, Data Center Operations Supervisor,
Rancho Water**

“Our experience working with Extreme Networks has been unbelievably good. Extreme just runs – we never have any issues with our gear and it’s very easy to support.”

**Dale Badore, Data Center Operations Supervisor,
Rancho Water**

Fully Redundant Infrastructure and Resiliency Supports Community-Wide Water Needs

As an Extreme Networks customer of over 15 years, Rancho Water has taken every opportunity to make the most of their network in the name of serving the community.

RW initially sought out Extreme in their objective to build a fully redundant network between facility locations. “We started out with Extreme when we realized we needed a cost-effective method for architecting a redundant network. RW has multiple locations collectively responsible for providing critical resources to the community, and we knew delivering on our mission started with the network,” said Dale Badore, Data Center Operations Supervisor.

Resiliency is also critical to RW. Given that their sole purpose is to ensure citizens have access to high quality water, wastewater, and recycled water services, it’s of the utmost importance to eliminate single points of failure everywhere possible.

Combining the Power of EAPS, Fiber Upgrades, and Extreme Management Center™ for an Unstoppable Network

In the beginning, RW and Extreme partnered to implement Ethernet automatic protection switching (EAPS). Ethernet automatic protection switching is a cost-effective method for building a redundant network between different locations. Today, RW operates EAPS between every

IDF (intermediate distribution frame, similar to a wiring/switch closet), as well as an EAPS ring with multiple connections between two data centers that are 5 miles apart.

Over time, Ranch Water made a series of significant upgrades. “Because of the cost savings and efficiency the Extreme platform brings us, we were afforded the ability to upgrade all links between IDFs and data centers to 10G and multi-line fiber,” Badore explained. Now, multiple fast links between data centers and closets increase throughput and network capability to the extent that their users frequently take notice of the speed – all thanks to the reduced TCO and cost of implementation made possible by Extreme.

Extreme Management Center is also a critical function for Ranch Water. Their IT team regularly utilizes the control and network access control function to prevent anomalous events and gain control at the device level across all systems.

Continued Infrastructure Uptime Keeps Employees Productive and Financially Benefits Customers Community-Wide

Today, RW maintains continual uptime, control and security, strategically positioning them to keep focus on technology-forward innovation initiatives such as using predictive analytics to foresee future failures or budgeting water. As a result of their successes, RW will be implementing Extreme Wireless imminently. They will also evaluate IoT technology as they establish greater control through Extreme Management Center.

“Thanks to Extreme EAPS, we’ve never lost connection between our data centers because we’ve configured it to switch from fiber to wireless, allowing data to flow continuously. It’s amazing when you think about it – the design allows us to suffer failure at any connection or interconnection point without affecting anyone.”

**Dale Badore, Data Center Operations Supervisor,
Rancho Water**



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