



Learn how a Regional Electric Cooperative enabled a secure connection to remote sites while protecting its critical infrastructure.

# A Regional Electric Cooperative establishes secure connectivity to critical remote sites

Airwall Solution provides secure remote connectivity and peace-of-mind management for one of the largest electric cooperatives in the U.S.



## Challenges

A flat network with dozens of remote sites up to three hours away and unprotected traffic back to the utility's command left their critical infrastructure vulnerable.



## Solution

After segmenting their network, the Airwall Solution was deployed to 43 of their remote substations, to servers, and to specific employee devices that needed access.



## Wins

They are now able to securely connect their remote substations, micro-segment access, and ensure traffic is fully encrypted. They were able to accomplish this easily, cost-effectively, and at-scale.

*“Airwall gives us peace of mind. It’s a secure connectivity solution we trust. We can step away from it and be confident that our critical infrastructure is secure.”*

**Protection Engineer**

## The challenge

A Tempered utility customer is a member-owned, not-for-profit electric cooperative in the Pacific Northwest area. They maintain over 2,100 miles of transmission and distribution lines, with 43+ substations, 84,000 service locations, close to 70,000 cooperative members, and a service area that covers around 350,000 people.

The recently announced the acquisition of another utility which almost doubled the size of their team (from around 250 to 400 employees) and added 20 more remote substations. They now serve both consumers and industrial customers.

This electric cooperative was looking for a secure remote connectivity solution that would protect traffic between distributed locations and their central office. They had a flat network topology with no segmentation and zero encryption. Their Protection Engineer said, “We were as unprotected as you could be.” They began looking for a solution that would get the network segmented and encrypted.

The team was also managing remote substations as far as three hours away, so they were also looking for a solution that enabled secure access for remote substations. When system events were triggered at these remote substations, they needed a solution that securely transmitted the necessary data back to central command.

## The solution

As their system admins began segmenting their flat network, they began looking for a secure remote connectivity solution that would easily work with their existing network infrastructure. Once they learned about Tempered’s Airwall Solution, they saw how easy it could be to securely connect and manage their complex infrastructure.

The team decided to go with Tempered’s Airwall because of its segmentation and secure remote connectivity. They deployed physical Airwall Gateways for 43 remote substations, with plans to expand into the substations they manage as a result of their recent acquisition.

Their remote substations connect back to servers at their central command, where they leverage Virtual Airwall Gateway and Airwall Server software to protect those servers. They use servers as a jump point to connect from their command to their IEDs (Intelligent Electronic Devices) located at their various sites. They also leverage Airwall Agents for a handful of their employees who need secure access to their network.

## Customer success

Since adopting the Airwall Solution, the team has been very happy with the secure connectivity, micro-segmentation, and encryption that the platform provides. The team quickly realized how seamless, simple, and cost-effective it was to connect and remotely manage their distributed sites.

## Deployed Airwall Solution components



**Airwall Conductor:** The team deployed the orchestration engine for provisioning, segmentation, allocation, and revocation of the network on-prem at their command. The Conductor allowed them to visualize their segmentation and do granular white listing of the network.



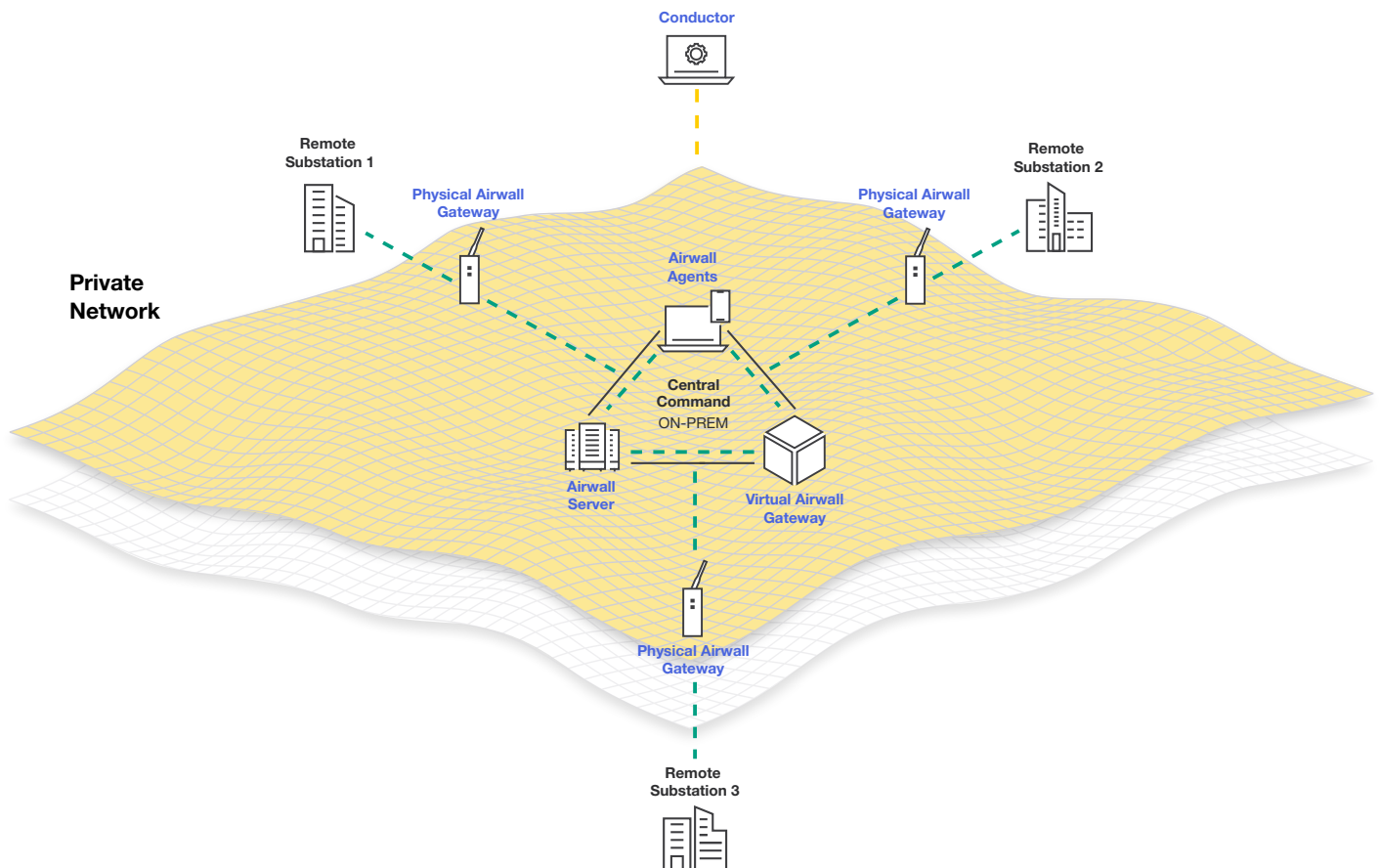
**Airwall Gateways:** Physical and Virtual Airwall Gateways were deployed to protect remote sites and an on-prem server, ensuring seamless connection across their entire network.



**Airwall Servers:** Airwall Server software enables software-defined segmentation and encryption at the individual server level. It allows only authenticated and authorized endpoints to discover and communicate with the servers, as each one is completely cloaked.



**Airwall Agents:** Agent software was deployed on a handful of employee devices — such as laptops, smart phones, and tablets — assigning a unique cryptographic identity (CID) for each device. The agents allow every device to follow segmentation and access policy at scale.








## Tempered delivered defense-in-depth

- 1 Zero-Trust Network Access (ZTNA)
- 2 Software-Defined Network (SDN)
- 3 Software-Defined Perimeter (SDP)
- 4 Multi-Factor Authentication (MFA)
- 5 Micro-segmentation for every endpoint
- 6 Lateral movement eliminated

## without expense-in-depth

 A fraction of the cost of traditional solutions

 Deployed much faster than traditional solutions

 Did not require additional network admins

**Want to see what Airwall can do for you?  
Schedule a meeting with our experts to learn more.**

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