

SCADA Resiliency

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May 28, 2025



SCADA – SUPERVISORY CONTROL AND DATA ACQUISITION



Operation control
of the production
and flow of water



Real-time alarm
notifications and
changes and threshold
limits



Status of all District
plants through SCADA
dashboard



Radio
communication
between District
sites

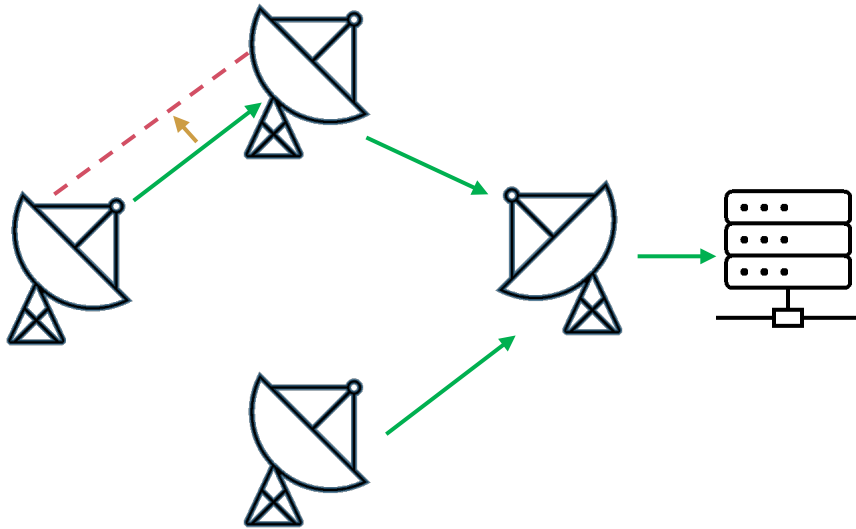
CURRENT SCADA TECHNOLOGY

- Next Gen Firewalls
- Current SCADA Software
- Hardware Life Cycle
- Communication Degraded
- Mesh Network with Multi-point Connections (Bottleneck)
- Data Encryption

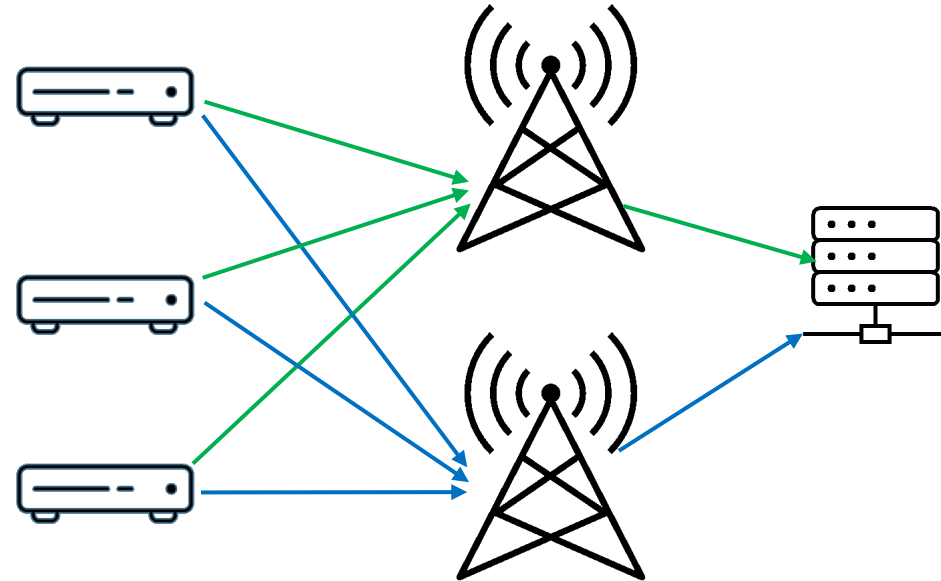


SCADA MESH COMMUNICATION

Existing Infrastructure

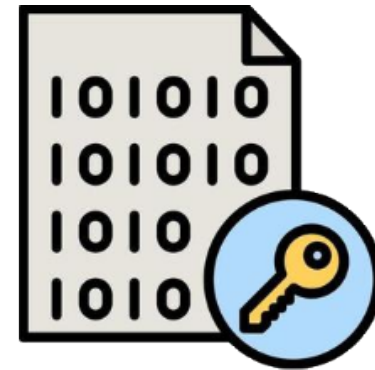


Proposed Enhancement



SCADA INNOVATION

- Strategic SCADA Plan with SCADA Contractor
- Point to Point Connection
- Cell and Fiber Resiliency
- High Availability (HA Mode)
- Data Encryption
- Strengthened Cybersecurity Posture



SNRC SCADA

- SCADA is a Local Network
- Data Communications Through Hi-Speed Fiber
- No Radio Connectivity
- Cybersecurity Posture
- Network Redundancy



SCADA POWER REDUNDANCY

- Implement Power Redundancy
 - *Solar power Backup*
 - *Generator Power Backup*
- Telemetry and Plant Operations



QUESTIONS?