

Take Your Site Intelligence to the Next Level With...

320 C個RTEX









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Pre Engineering



Presentation Plan

1

Site Management
Philosophies (RTU vs NMS)

2

What is an RTU?

3

How is a Remote Site Typically Managed?

4

Live Unit Demonstration

5

Benefits/ Business Growth 6

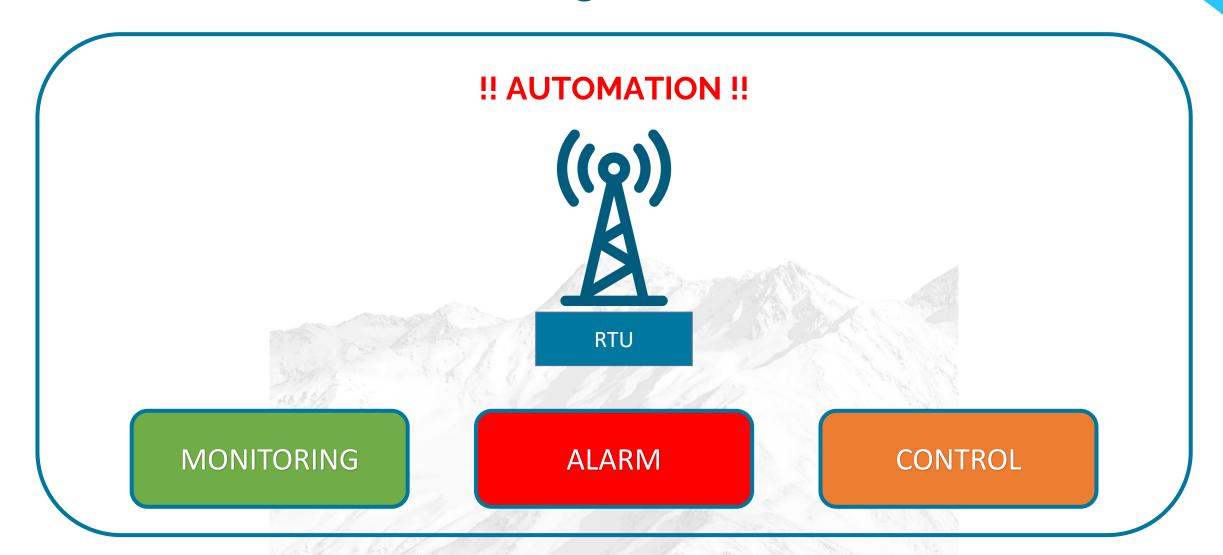
What Davicom Offers & Unit Comparison

7

Example of Applications

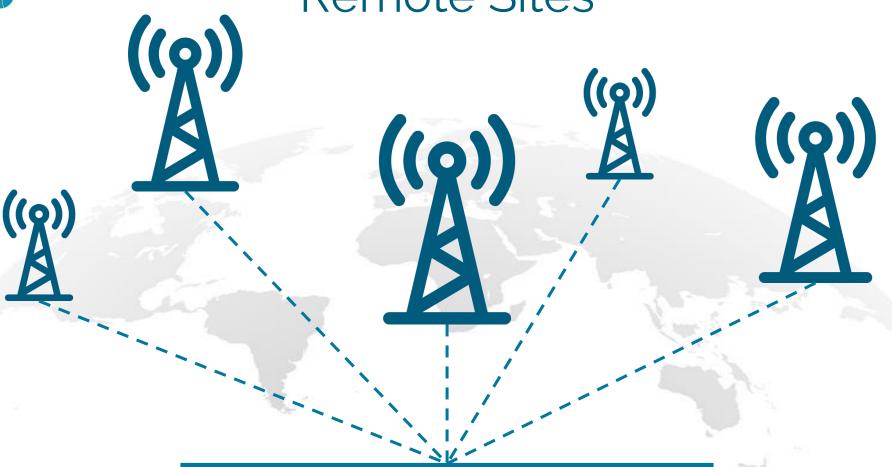


What is Remote Site Management?





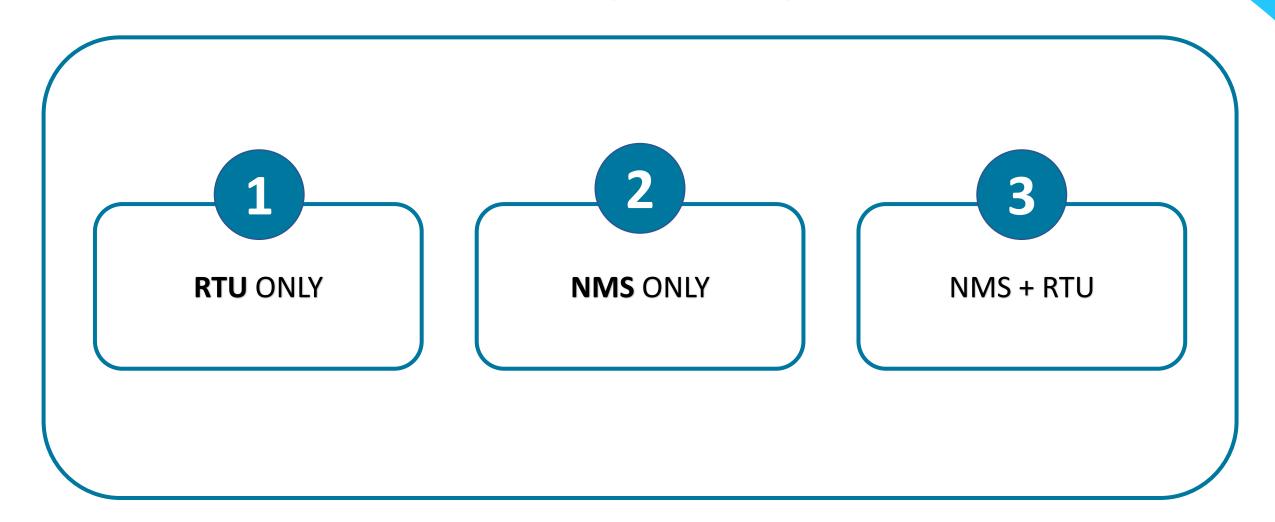
Network of Remote Sites



Network Operation Center (NOC)

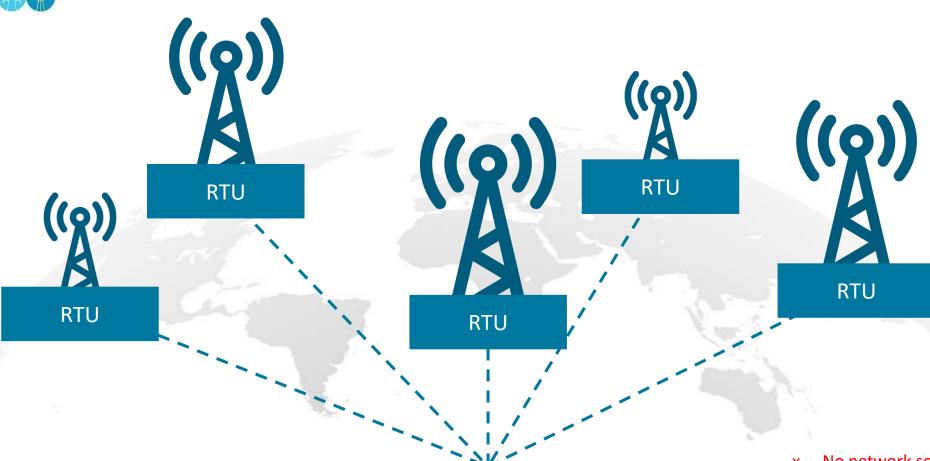


What are the Different Monitoring Strategies?





RTU only Strategy



- ✓ Completely autonomous site
- ✓ Enhanced reliability for each site

Network Operation Center (NOC)

- x No network scale management and data acquisition.
- No general overview for larger networks



NMS Only Strategy



- ✓ Single point view of everything
- ✓ Easier site management and alarms
- ✓ Can be a less expensive Solution

- x Single point of failure
- x Only talks to IP-enabled equipment
- Still need a box at the site for temp, smoke, etc.
- x Completely blind in case of link failure



NMS + RTU Strategy

! Continued Logging! ! Still Automating!









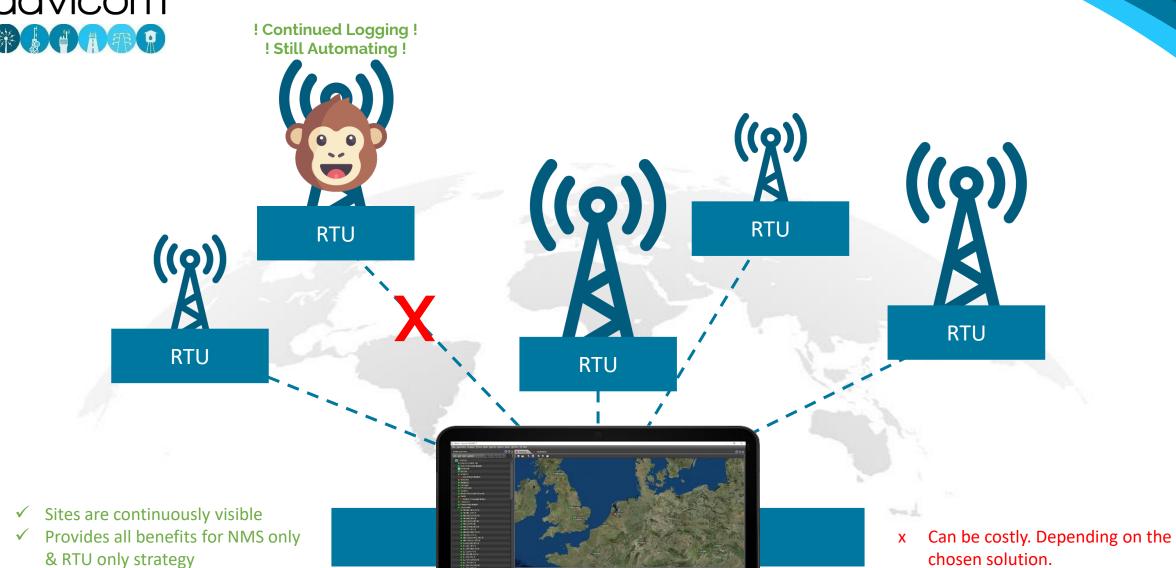


- Sites are continuously visible
- Provides all benefits for NMS only & RTU only strategy

Can be costly. Depending on the chosen solution.



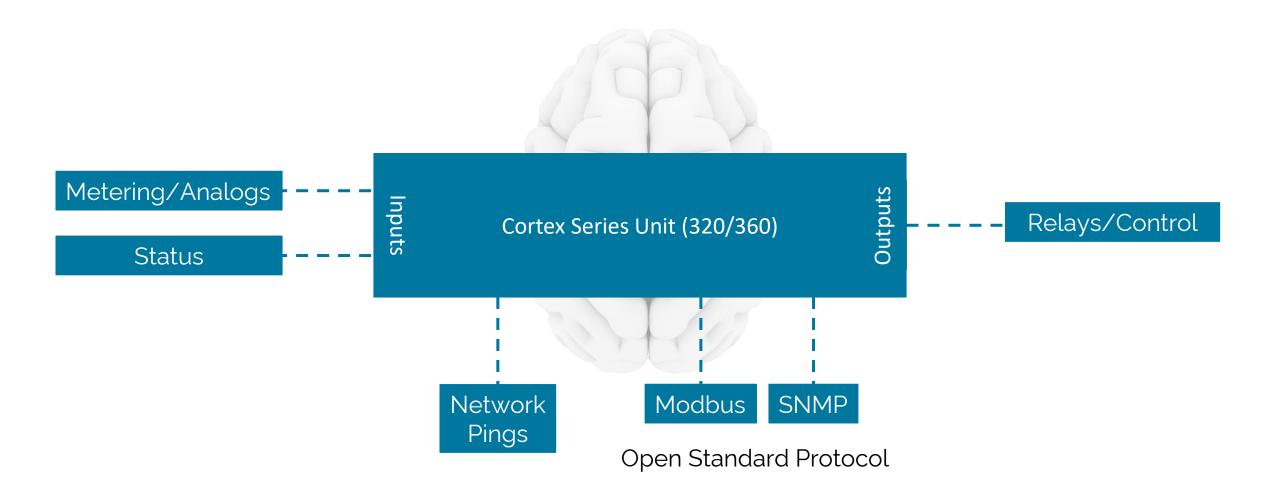
NMS + RTU Strategy





What is a Remote Telemetry Unit (RTU)?

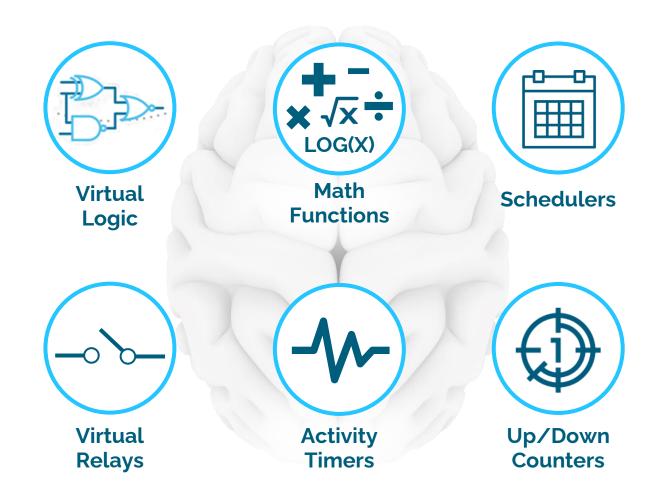
Also called "Remote Control" or Remote "Site Management Systems"





What is a Remote Telemetry Unit (RTU)?

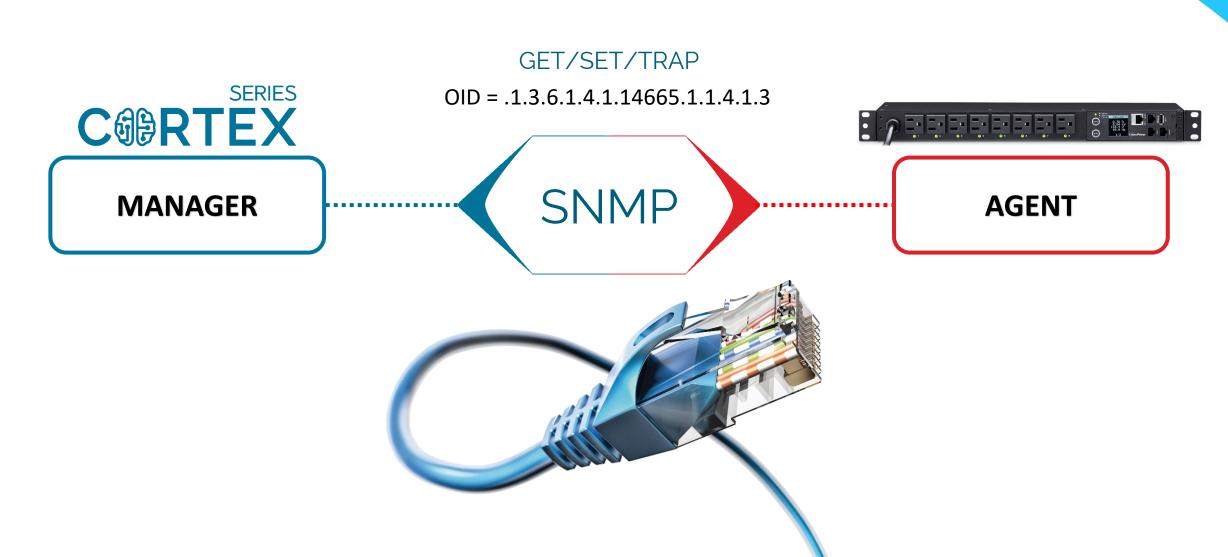
Also called "Remote Control" or Remote "Site Management Systems"





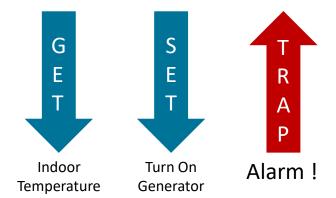
What is SNMP?

Simple Network Management Protocol





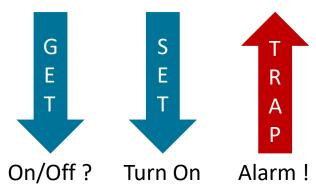
NETWORK MANAGEMENT SOFTWARE (NMS)



MANAGER



AGENT







What is Modbus?

Mostly used for I/O expansion

Registers = 30001..

Status = 10001..30000 = 00001..10000

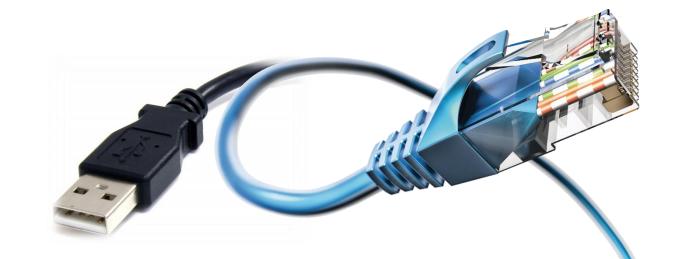
Coils

SLAVE

SERIES C RTEX

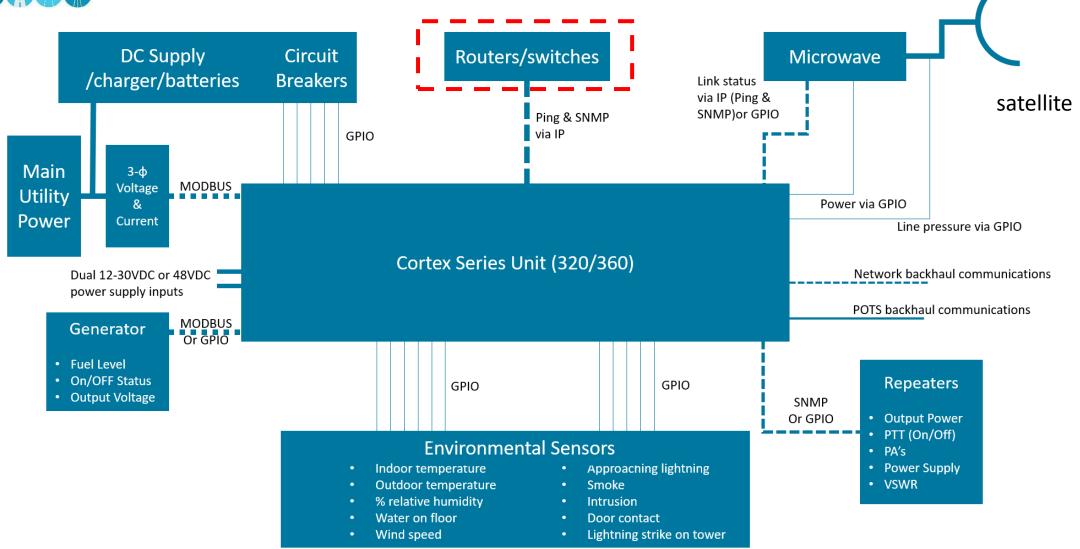
MASTER

Modbus



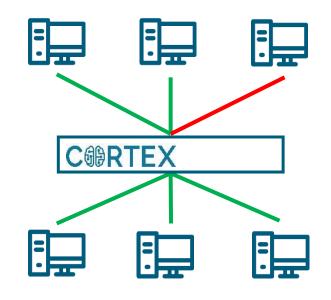




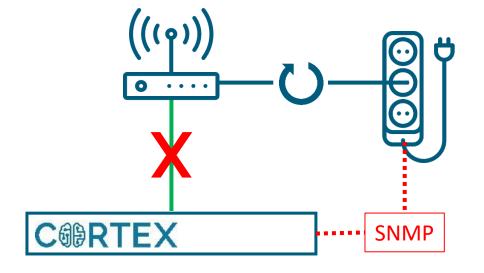




Manage Your Network Equipment



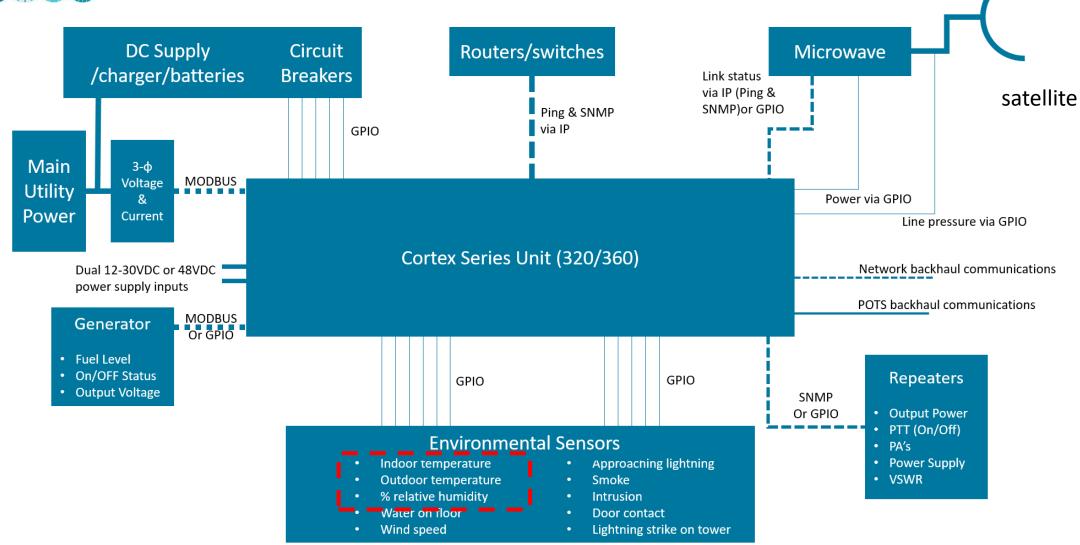
Debug your network



Reset flaky network elements!



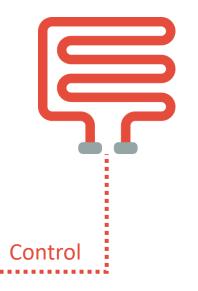






Use Your RTU to Create a Smart Thermostat Function





C RTEX





Use Your RTU to Create a Smart Thermostat Function

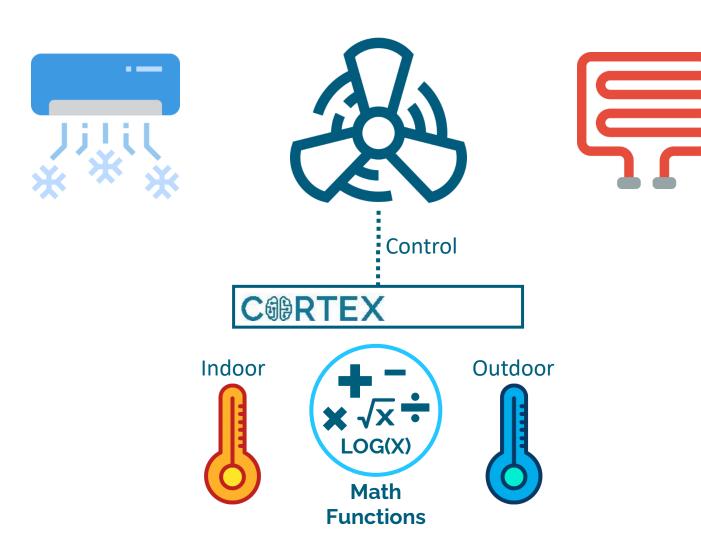






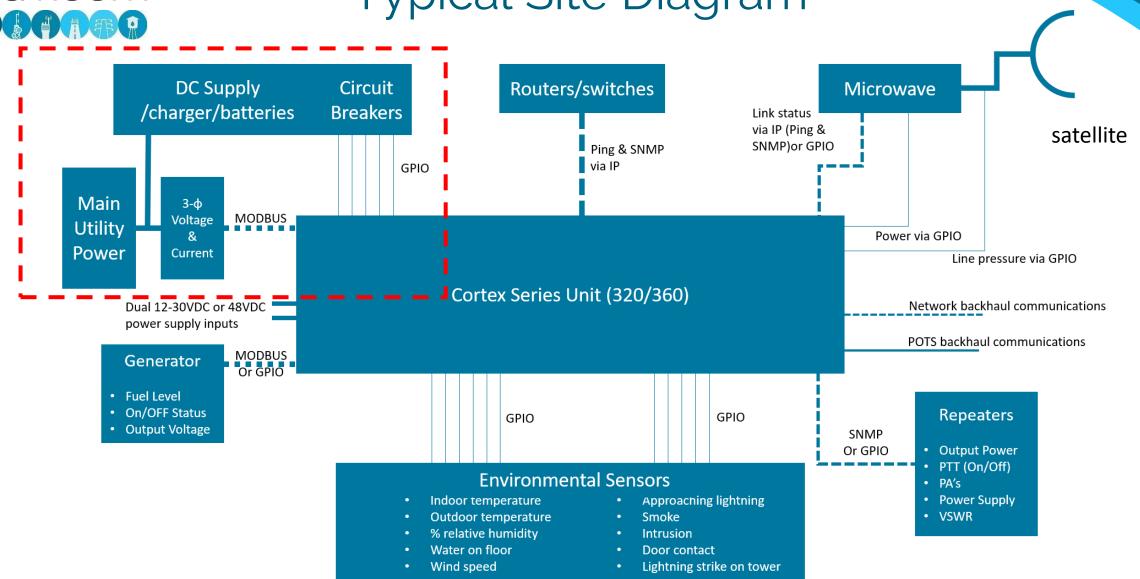


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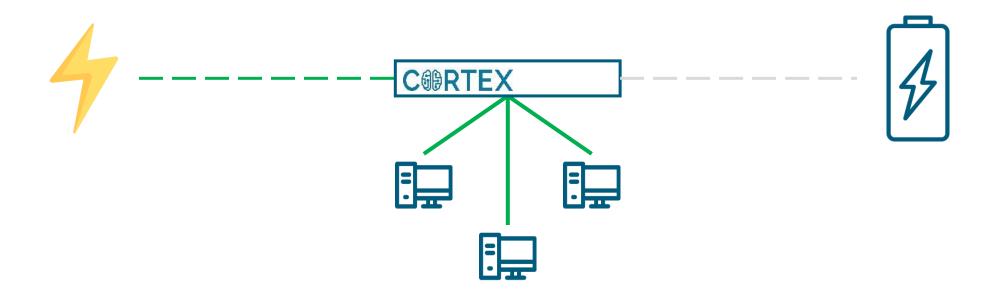




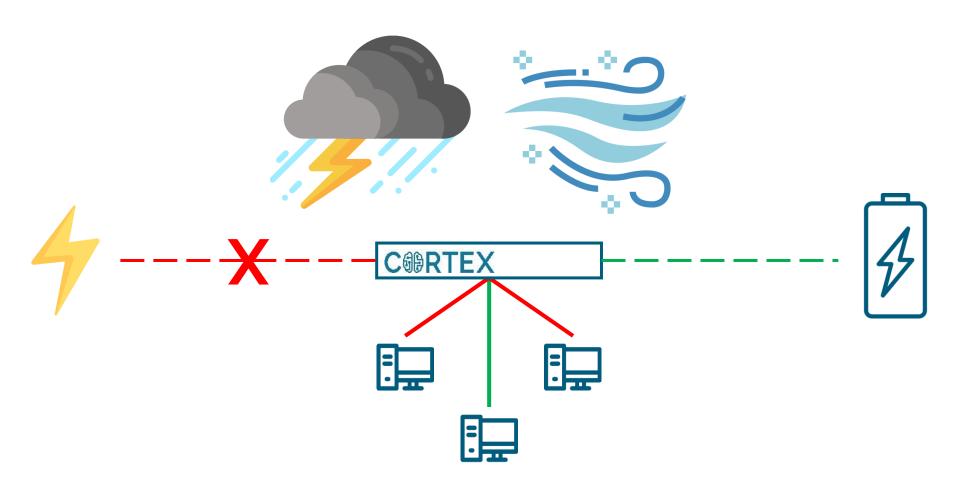
Typical Site Diagram



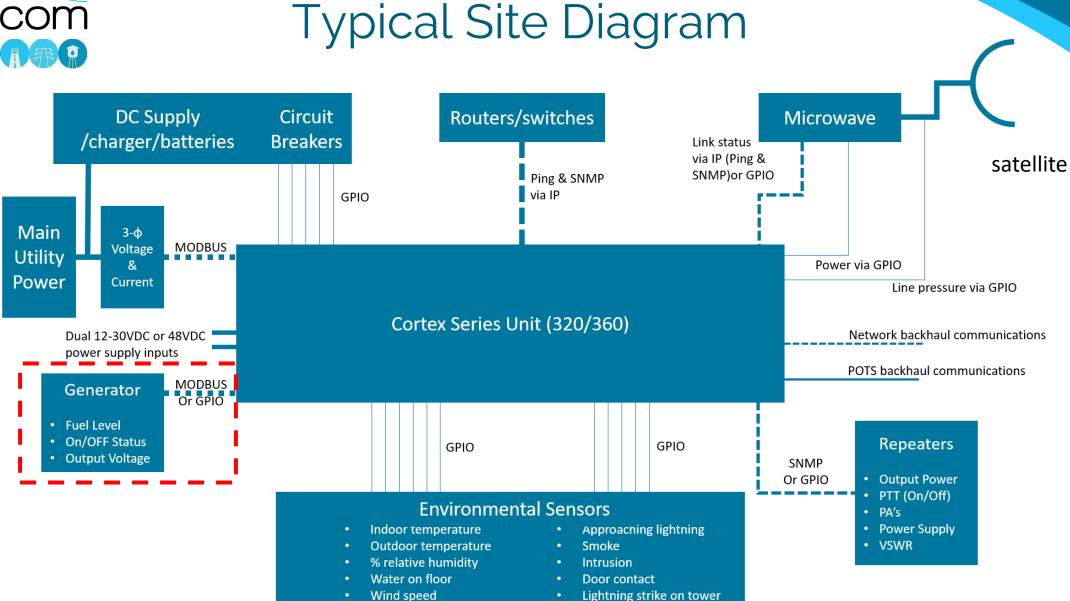




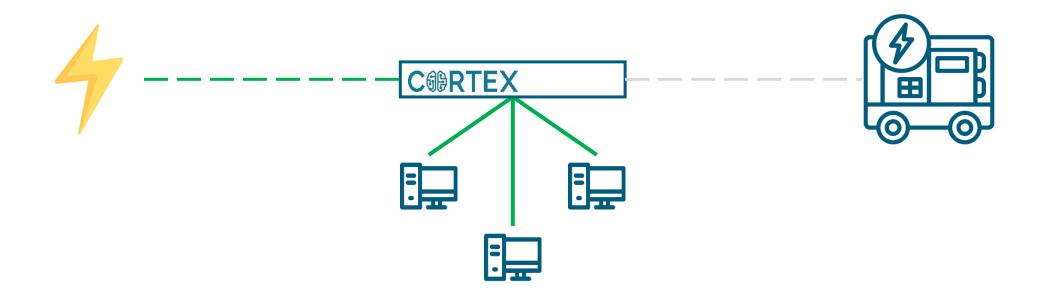




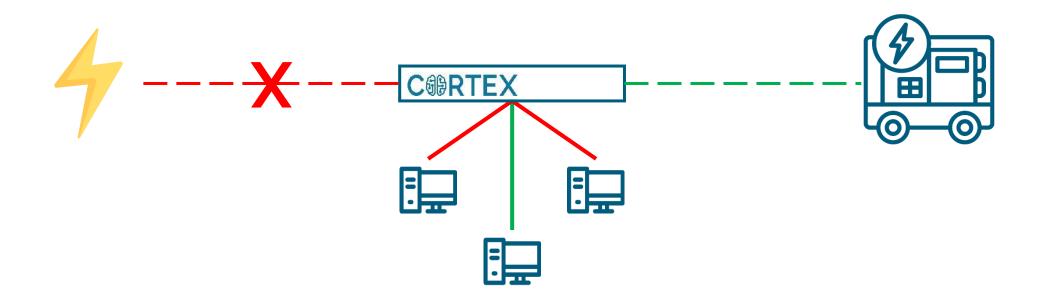




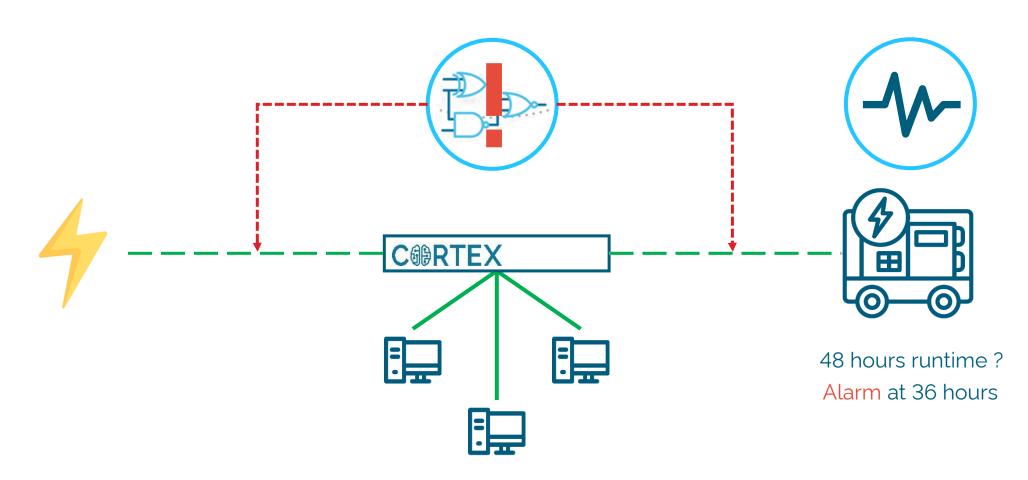






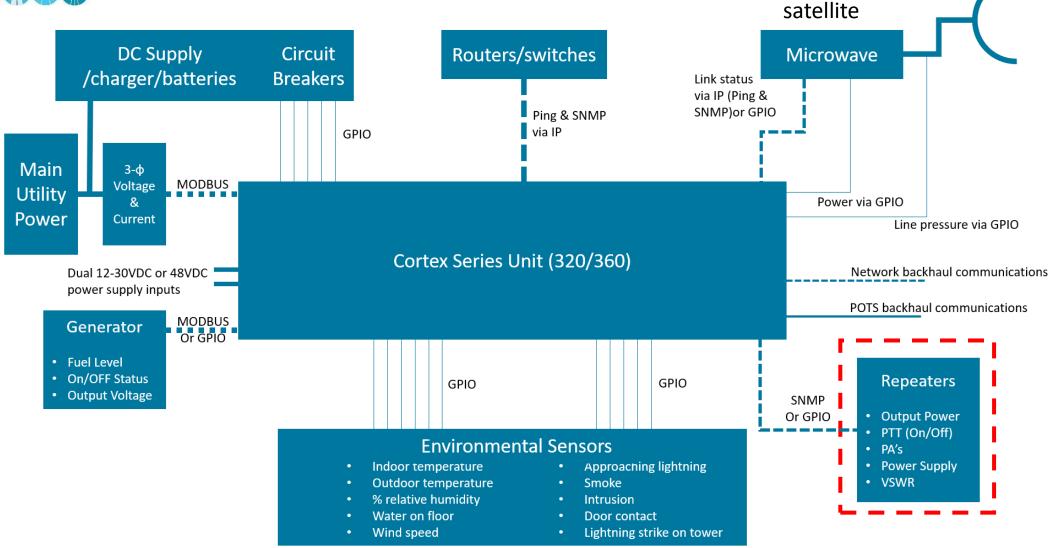








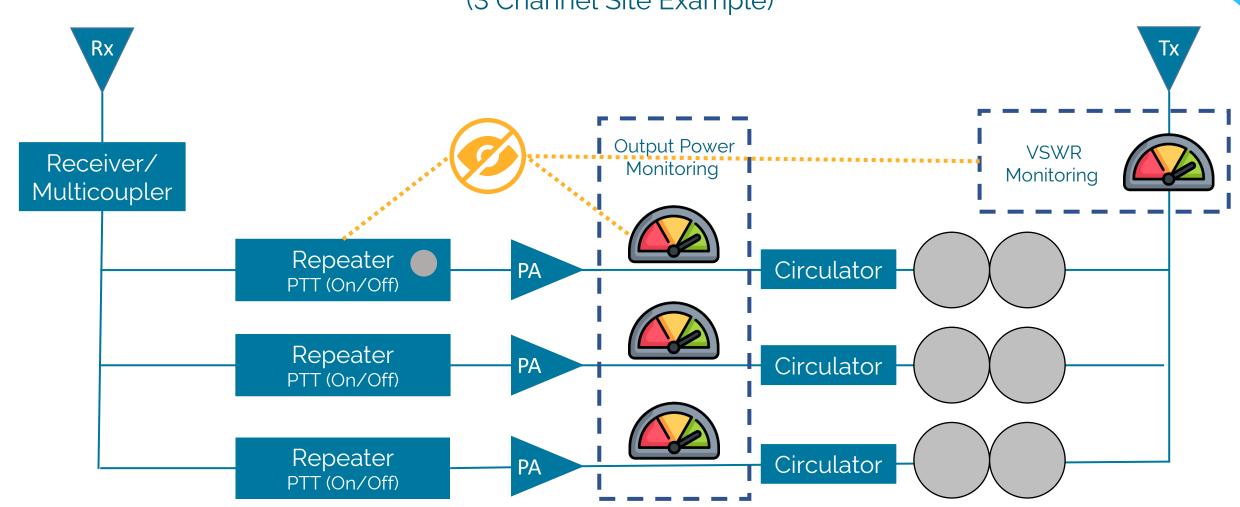
Typical Site Diagram





Repeater Monitoring Schematic

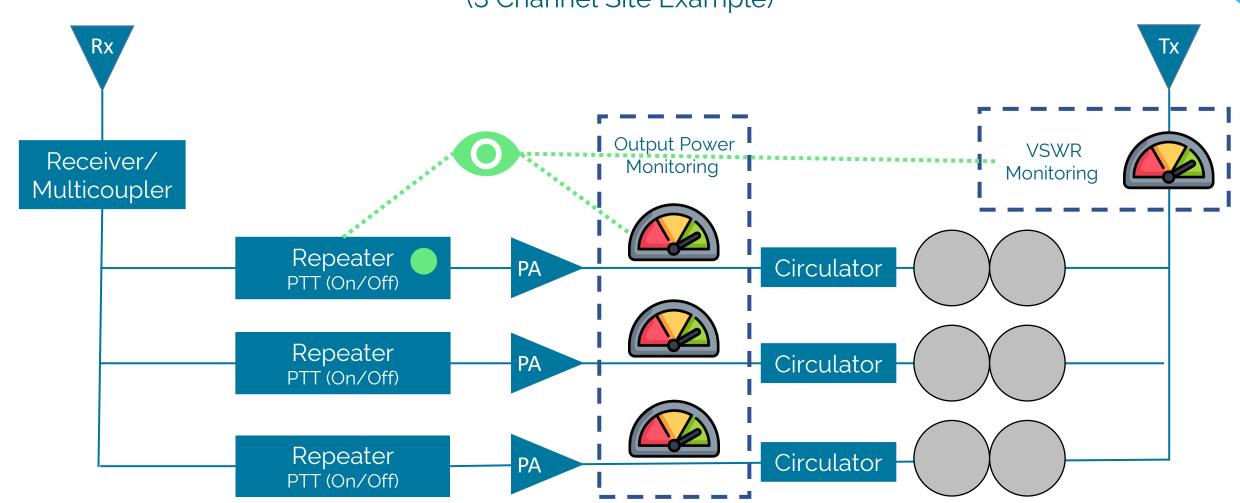
(3 Channel Site Example)





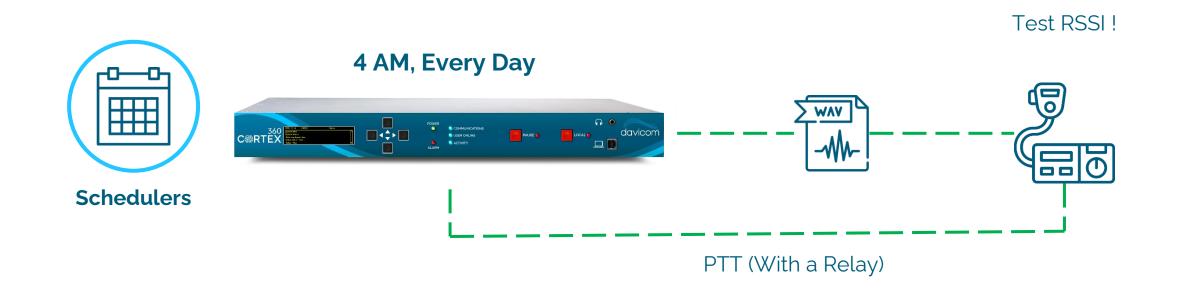
Repeater Monitoring Schematic

(3 Channel Site Example)





Automatically Test Your Repeaters





Now Let's See How it Looks on a Real Unit

CORRTEX













How can You Benefit from This?

Detailed and Efficient Monitoring Strategy

1

Less Downtime

2

A more productive Engineering Team/cover more sites with the same personnel.



!! AUTOMATION !!



Let's do the Math Together

On average, a remote site...

Requires at least one trip a month

Is at a distance of 80 miles

Takes approximately
10 hours to solve
problems

Tech/Eng wage is around \$ 30.00 an hour

Travel costs 0.58 cents per mile



Let's do the Math Together

How much does this potentially represent, by saving one trip a month?

(80 miles * 0.58 cent/miles) + (\$ 30.00 an hour * 10 hours)

Per Month

\$ 346.40

Per Year

\$ 4,156.80

10 Years (2% per year)

\$ 45,515.00









2 Options Available for the Cortex Series

CORRTEX













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Audio Input/Output

I/O Connectors

Connect all I/O's to the compact DB-25 connectors.

Connect site audio to the line-in or feed the audio to an external mic input.

Power Failure Check

Monitor AC power at your site with the included wall-wart.



On-board USB hub

Connect up to 2 USB devices (Memory stick or other Davicom products).

Ethernet Port

Connect to the outside world and/or to other onsite equipment.

Power input

12 VDC for easy battery backup.

Phone Line

Connect to the outside world via dial-up modem.



CORRTEX

I/O Connectors

Connect all I/O's to the compact DB-50 connectors.

On-board USB hub

Connect 4 USB devices (keyboard, mouse, memory stick or other Davicom products).

Dual Power Supply

Add redundancy by connecting two 10 to 30 VDC power supplies.

Power Failure Check

Monitor AC power at your site with the included wall-wart.



Ethernet Switch

Connect to the outside world and/or to other onsite equipment.

Video Output

Connect a flat screen monitor and access the unit through the internal GUI without an on-site computer.

Audio Input/Output

Connect site audio to the line or mic input and feed the audio to an external mic input using line-out.

Serial Connection

Connect to legacy devices or to the outside world through this serial port.

Phone Line

Connect to the outside world via dial-up modem.



What are the Differences?

COPRTEX



Available SNMP Manager Packages





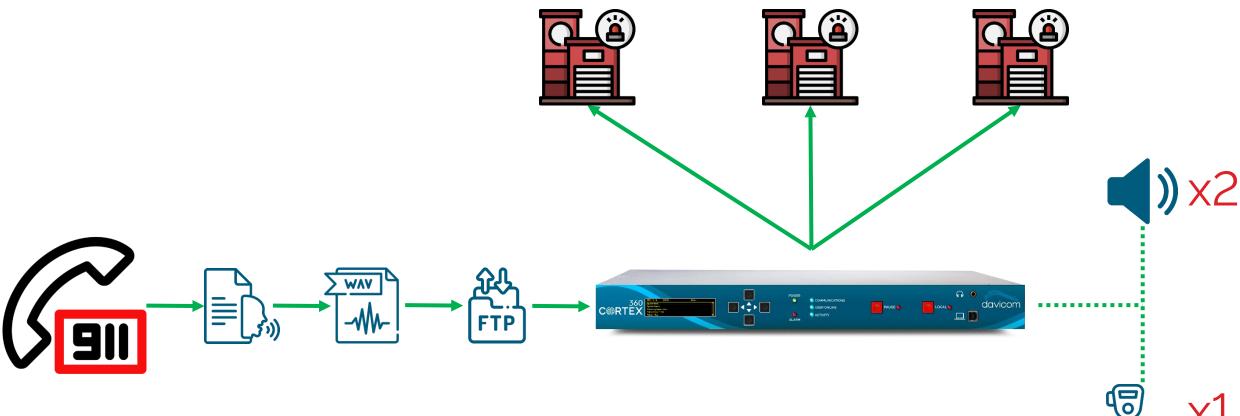
Available SNMP Manager Packages







Fire Stations











Fire Stations



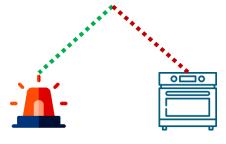




Recommendation approved



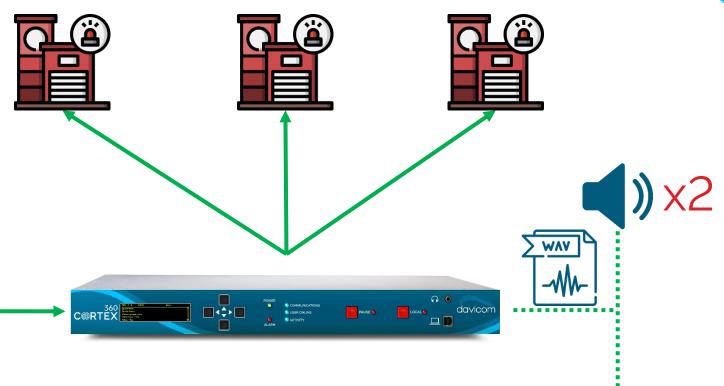








Fire Stations





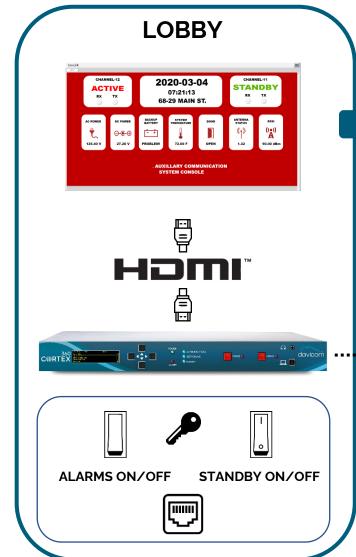






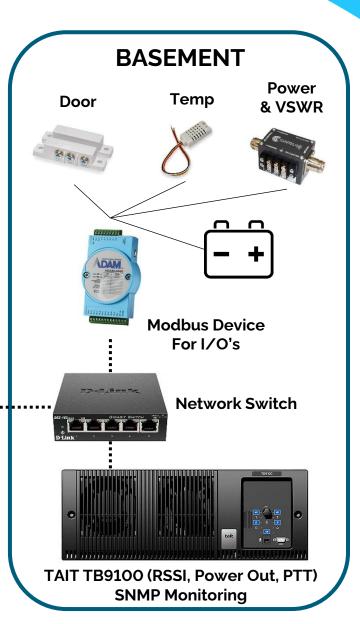


911 Center



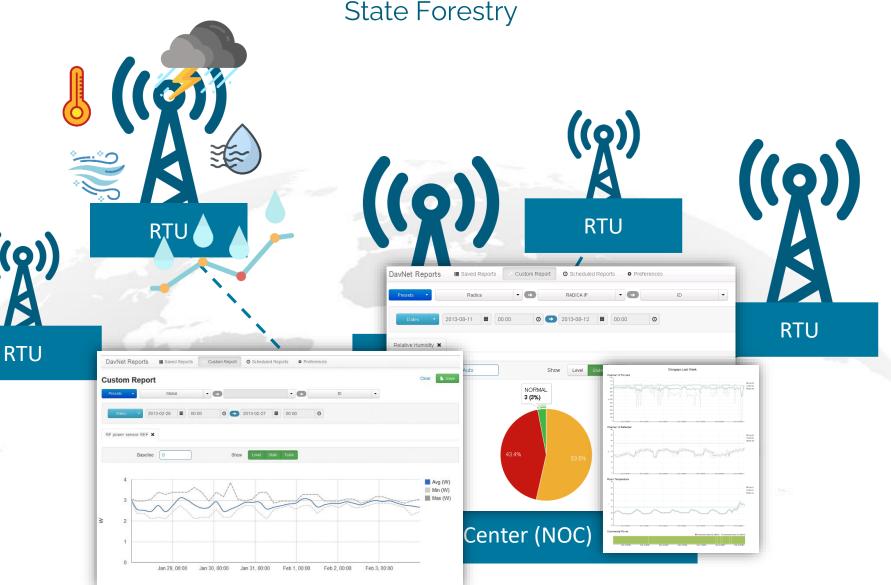


Dedicated IP Connection (Modbus & SNMP)





State Forestry





Here are Useful Links to Get you Started





Davicom Corporate Website

Cortex Series Website



REP & DEALER PORTAL

DEX Support Portal

Access Your Portal