Public Safety Antenna DAS Monitoring Meet AHJ's Mandate Requirements in CA and Now New York City

More AHJ's in US cities are mandating antenna monitoring of the passive infrastructure in ERRCS systems according to IFC 510

ORLANDO, FLORIDA, UNITED STATES, September 19, 2023 /EINPresswire.com/ -- From Dastronix & Consultix, More AHJ's in US cities are mandating monitoring of the passive infrastructure in ERRCS systems according to IFC 510.
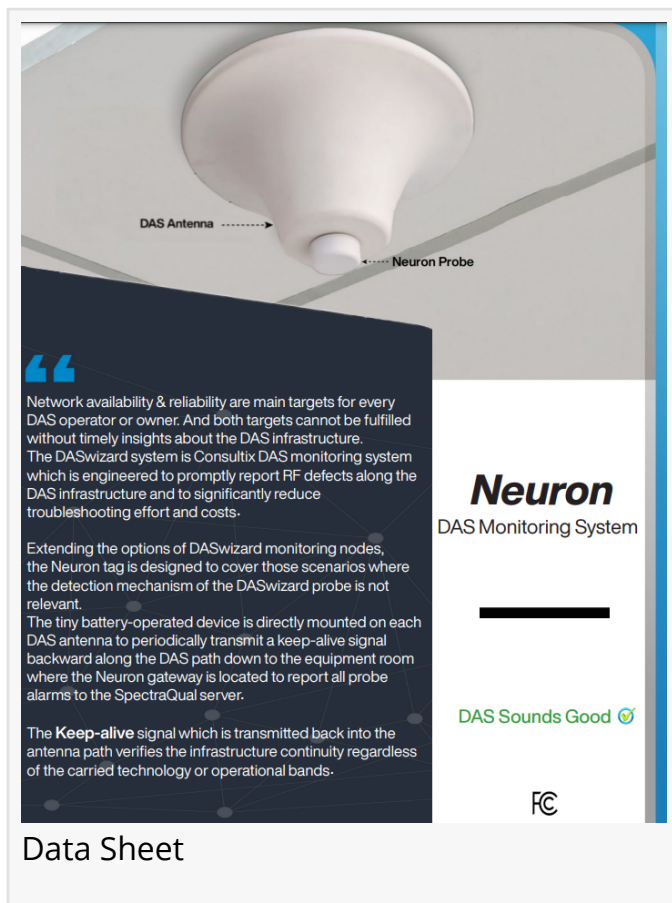
Accordingly, RF monitoring down to the antenna level is getting inevitable to ensure network availability that constantly achieves the required 99% coverage and to promptly identify which segment is defective. However, monitoring of passive devices such as couplers, splitters, cables and antennas is challenging because of their nature of being passive creatures.

> Network availability & reliability are main targets for every DAS operator or owner. And both targets cannot be fulfilled without timely insights about the DAS infrastructure. The DASwizard system is Consultix DAS monitoring system which is engineered to promptly report RF defects along the DAS infrastructure and to significantly reduce troubleshooting effort and costs.
>
> Extending the options of DASwizard monitoring nodes, the Neuron tag is designed to cover those scenarios where the detection mechanism of the DASwizard probe is not relevant.
> The tiny battery-operated device is directly mounted on each DAS antenna to periodically transmit a keep-alive signal backward along the DAS path down to the equipment room where the Neuron gateway is located to report all probe alarms to the SpectraQual server.
>
> The **Keep-alive** signal which is transmitted back into the antenna path verifies the infrastructure continuity regardless of the carried technology or operational bands.

Data Sheet

With more than 10 years serving the global DAS market with distinguished instruments, Consultix engineered the Neuron with the finest compromise between usability, efficiency and affordability. Supporting Dry contact, SNMP interfacing, a generic node hardware and minimal installation requirements are among the key features that makes the Neuron remarkably unique and versatile.

Consultix Neuron was engineered as an economical DAS monitoring system that is simply reliable and quickly deployable.
The system now comes with a variety of gateway options supporting different scenarios to seamlessly connect to your ERRCS (ask us for the right configuration that suits your site). Why Neuron is leading the Market?

Flexible band choices include VHF, 600, 700, 800 MHz in addition to cellular bands. Generic to all

DAS vendors/types regardless it's an existing or new site

Form C Dry-contact alarm (optional), AC & DC Gateway supply, Cloud or on-premises server (ask for integration with your NOC, NMS or SAAS)

Unrivalled 55 dB distance to the monitored antenna (55 dB cable/system loss), Indoor & Outdoor versions to monitor DAS antennas or Donor line.

No need to install proprietary DAS antennas, On-channel Interference Detection (Option), No need to replace existing tappers or couplers of your infrastructure. Gateway supports up to 100 devices. Variety of gateway-to-server connectivity (Ethernet, WIFI or cellular), Email and SMS notifications

FCC Certified, Cost-effective pricing structure. Enable the digital twin of your DAS to keep track of any changes or anomalies.

Regards,
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SYSTEM SPECIFICATIONS

NEURON

Parameter/Feature	Value
Mode	DAS continuity check
Communication with the gateway	Keep-alive signal (coded with each Neuron ID)
Communication media	Keep-alive signal transports through the DAS infrastructure
Keep-alive Frequency Band	900 MHz ISM band (custom option choose from 287 to 1054 MHz)
Keep-alive signal Modulation	GFSK
Keep-alive Signal BW	50 KHz
Max. loss (DAS path from any antenna to the Neuron gateway)	55 dB
Reporting Interval	5 minutes to 1 day (Factory Settings)
Keep-alive Signal Duration (active period)	30 ms
Neuron battery Life	4 years @ 15-minute reporting interval
Battery Type	Built-in, Coin CR2032 (Replaceable)
Weight	35 grams (1.25 oz) including battery
Dimensions	Diameter; 45 mm (1.77"). Hight; 20.3 mm (0.8")
Mounting	Adhesive (screw-mount optional)
Settings	Neuron ID, site and floor location
Operating Temperature	-10 to 50 °C (14 to 122 °F)
Operating humidity	Up to 95%
Certifications	FCC (part 15.109 and 15.107) and EN55022/CISPR 22 EMI
Enclosure material	ABS Plastic. White color (custom color available)

NEURON GATEWAY

Parameter/Feature	Value
Capacity	>100 Neurons / gateway
Connectivity to server	Ethernet (Optional WIFI and Cellular)
Back-up mechanism	Store & forward
Security method	SSL
Alarming Method	Direct access (hotspot GUI), SpectraQual server, SNMP interface (optional) or Dry-contact (optional)
Power Supply	DC input (5 VDC; connector 5.5 × 2.1 mm) and AC/DC adapter included (100-240 VAC, 50-60 Hz). Optional 24/48 VDC input.

Data-Sheet

SYSTEM SPECIFICATIONS

SPECTRAQUAL SERVER

Parameter/Feature	Value
User access	Web-based
Setup	On-Premises or Cloud
Security	SSL to gateway, token for user authentication and access levels
Widgets	Standard or customizable
Data Representation	Tabular, time graph, bar chart, pie chart and maps
Capacity	As per ordering information below
Notifications	Dashboard, visual floor map, e-mail and SMS
OS	Windows Server
Database	MySQL
Integration with existing OSS	Custom option

ORDERING INFORMATION

Parameter/Feature	Value
RF beacon for DAS continuity check; built-in battery, adhesive-mount.	Neuron
Neuron Gateway: Receiver unit for Neuron keepalive checks; Ethernet connection to SpectraQual server; incl. AC/DC Adapter.	Neuron-GW
Form C Dry-contact interface for Neuron Gateway.	Neuron-GW-FC
External Directional Coupler for Neuron Gateway connection with site equipment.	Neuron-GW-DIR
Neuron gateway option: WIFI backhaul connection to SpectraQual server.	Neuron-GW-WIFI
Neuron gateway option: Cellular backhaul connection to SpectraQual server.	Neuron-GW-CELL
SNMP interface for Neuron Gateway.	Neuron-GW-SNMP
RSSI mode for Neuron Gateway (Neuron signal level monitoring).	Neuron-GW-RS
Local Instance of SpectraQual Server Licence (< 100 Probes)	SpectraQual-P100
Local Instance of SpectraQual Server Licence (< 200 Probes)	SpectraQual-P200
Local Instance of SpectraQual Server Licence (< 1000 Probes)	SpectraQual-P1K
Local Instance of SpectraQual Server Licence (> 1000 Probes)	SpectraQual-Mega
SpectraQual server (Cloud): Annual subscription (< 100 Probes)	SpectraQual-Light100
SpectraQual server (Cloud): Annual subscription (< 200 Probes)	SpectraQual-Mini200
SpectraQual server (Cloud): Annual subscription (< 1000 Probes)	SpectraQual-C1K
SpectraQual server (Cloud): Annual subscription (> 1000 Probes)	SpectraQual-Mega/C

Data-Sheet

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