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CMA
Critical Messaging Association



Innovative Leader in Monitoring System
for

“A New Era of Paging Reliability”

Advanced RF Monitoring for Zero-Downtime Networks

(by DAC System SA)

London, October 29th – 31st

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Founded in 2013 in Switzerland, DAC System develops advanced **RF monitoring solutions** for telecom, broadcast, and critical communication networks.

Based in Manno, our team combines deep **RF and SW expertise** with decades of industry experience, driving global innovation through **patented** technologies.



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Critical Communication & Mission-Critical Infrastructures



Broadcasting



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Why Paging Quality Matters



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Hidden Challenges



- **No 24/7 RF visibility**
- **Uncertain message transmission proof**
- **Unverified channel availability**
- **Undetected interference**

“Invisible problems = unpredictable network.”

Monitoring vs Measurement

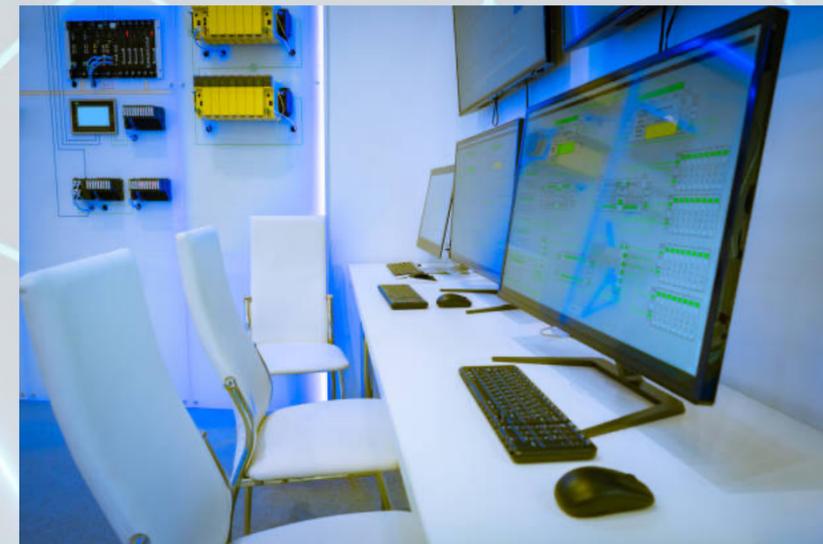
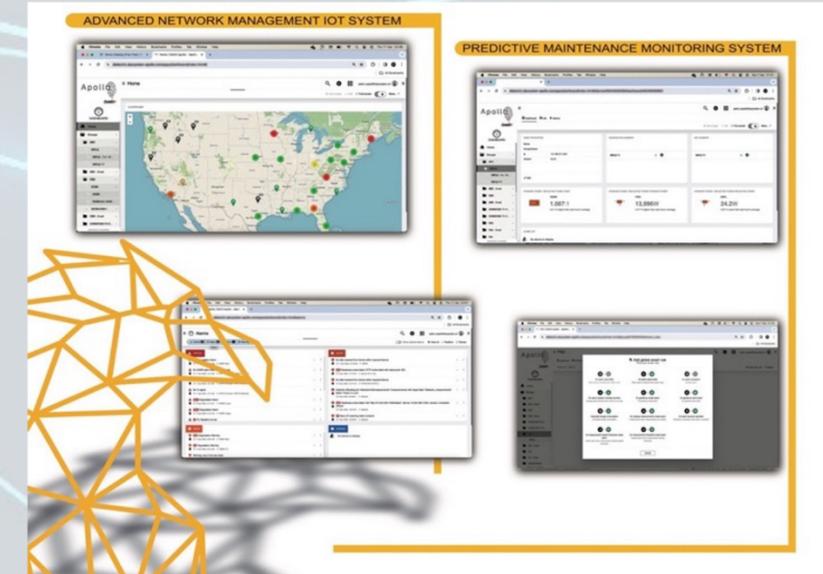


**“Measuring is like taking a photograph.
Monitoring is like watching a video — you see the story unfold.”**

The Monitoring Approach

DAC⁺ SYSTEM

- Real-time, continuous monitoring of the RF chain, from transmitter output to antenna system.
- Permanent installation at each base station
- No impact on transmission
- Autonomous and cloud-connected



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The Monitoring DAC solution



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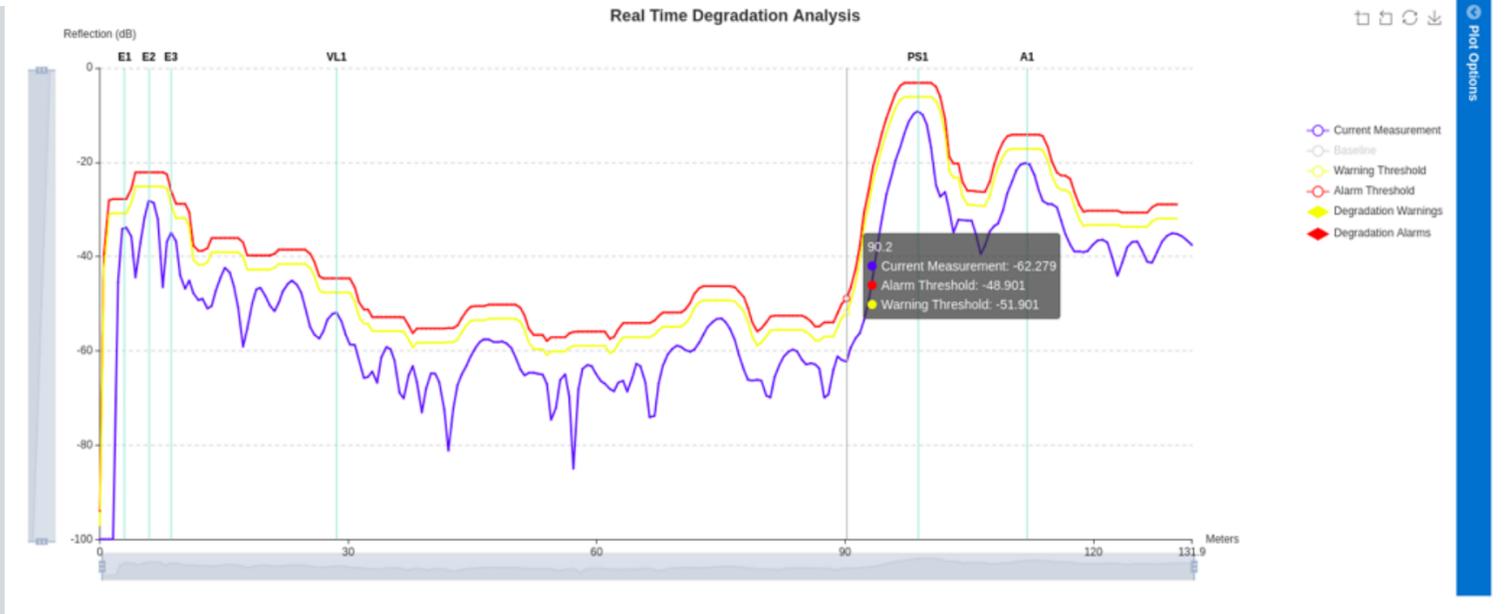
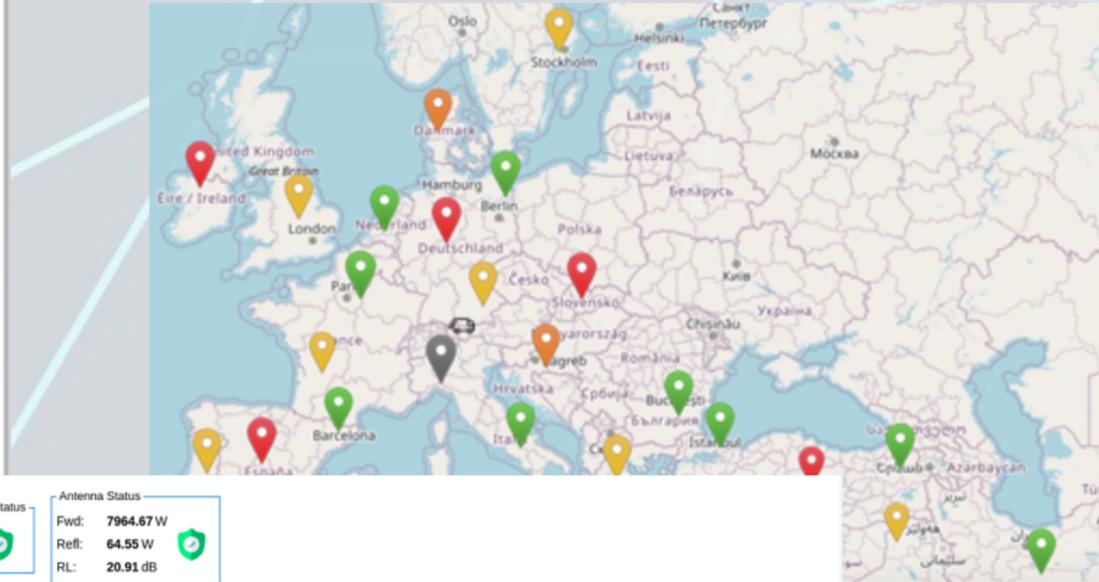
Turning Data into Assurance

RF1 / RF2

VSWR [:1]: 1.192
FWD Power [W]: 17450
REFL Power [W]: 135

Channel	VSWR [:1]	FWD Power [W]	REFL Power [W]
CH 11	1.18	4500	30
CH 18	1.18	4500	30
CH 25	1.19	2800	21
CH 27	1.20	3700	30
CH 40	1.25	-----	---

Antenna Status: Fwd: 7964.67 W, Refl: 64.55 W, RL: 20.91 dB



Example 1 : Transmission Verification

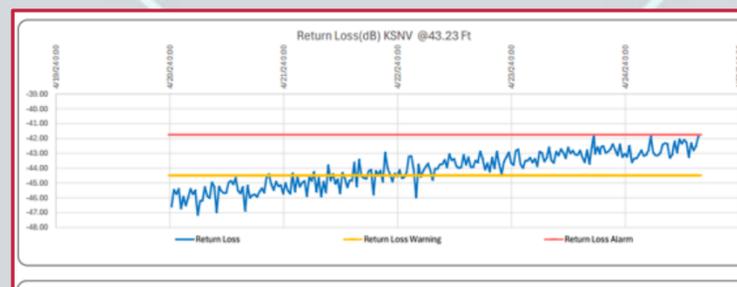
The system confirms that the base station *did* transmit — providing evidence when pagers fail to receive.

Message sent → TX Burst → RF Confirmation → Pager reception



Example 2 : RF Health & Antenna Supervision

Detect degradations early — connector oxidation, water ingress, partial antenna failure.



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Reference

Entire POLYCOM/TETRAPOL Switzerland network monitored 24/7 by DAC system



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra



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DAC SYSTEM

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**From invisible to visible.
From reactive to proactive.
From assumptions to evidence.**



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Continuous Monitoring



Proactive Diagnostics



Reduced Maintenance Costs



Automation & Remote Access

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DAAC SYSTEM 

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Continuous RF path monitoring in Critical Communication is not just a technological upgrade — it's a strategic necessity to ensure safety, service continuity, and communication quality.



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The Future of Monitoring Technology



Embracing Innovation for better
operational efficiency and reliability

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Q&A

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