

A New Standard in Remote Spectrum Visibility

Real-Time Spectrum Visibility, Anywhere in the World

SpectrumViewer brings the proven power of SpectraWare to the SXM platform – giving users live, remote access to RF spectrum from any deployed SXM node, anywhere on the globe. No field teams. No travel. No delay. Just direct, real-time visibility into the RF environment at the exact location where it matters.

What Is Spectrum Viewer?

thinkRF is proud to introduce Spectrum Viewer, a powerful new capability for the SXM (Spectrum eXperience Management) platform that brings the proven functionality of SpectraWare to SXM customers. With Spectrum Viewer, users can now remotely view and interact with live RF spectrum from SXM nodes deployed in the field, either through the cloud or through a local access connection. This gives customers a fundamentally new level of operational visibility, allowing them to see spectrum conditions directly at the point of deployment – wherever that node is located in the world.



Why Remote Spectrum Access Has Been the Missing Link

This is a significant step forward for the industry. In most spectrum monitoring environments, gaining direct access to real-time spectrum data at a remote site requires physical presence, specialized equipment, or labor-intensive field workflows. Spectrum Viewer changes that model. By extending real-time spectrum visualization to globally deployed SXM nodes, thinkRF enables users to inspect the RF environment instantly and remotely, without the cost, delay, and limitations of traditional on-site spectrum analysis. The result is a much more agile, scalable, and modern approach to RF operations.

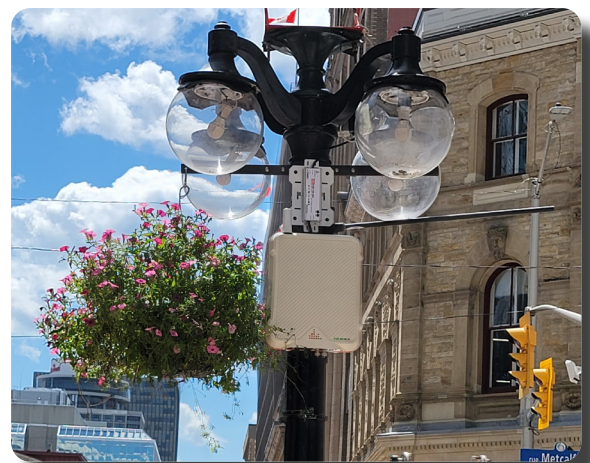
Complementing Autonomous Analytics with Human Judgement



Spectrum Viewer enhances SXM's value as a platform for both RF spectrum monitoring and 3GPP network awareness. SXM already provides autonomous monitoring and analysis of key wireless infrastructure and network parameters across 4G and 5G environments, delivering continuous insight into network activity, infrastructure changes, and spectrum usage. With the addition of Spectrum Viewer, customers can now complement those automated analytics with direct visual inspection of the spectrum itself. This human-in-the-loop capability is especially important when users need to investigate anomalies, validate unexpected behavior, confirm interference events, or observe signals that may not fit standard or automatically decoded patterns.

Real-Time Spectrum Inspection, Without Being On-Site

The power of this new capability lies in its simplicity and immediacy. Users can connect to an SXM node and view real-time spectrum much like they would with a traditional high-performance spectrum analyzer, but without needing to be on location. They can inspect signals, evaluate spectrum occupancy, observe sweep activity, and interact with the RF environment in real-time from virtually anywhere. This provides faster insight, stronger operational awareness, and a more direct path from detection to diagnosis.



Practical Applications Across Every Spectrum-Dependent Industry

For mobile network operators, Spectrum Viewer introduces a highly practical new tool for deployment validation, troubleshooting interference, and performance assurance. Engineers can verify actual spectrum conditions at remote sites, investigate quality issues, and gain deeper context around 3GPP network behavior without dispatching teams into the field. For regulators and spectrum authorities, it enables direct observation of emissions, unauthorized transmissions, and cross-border interference conditions, helping strengthen enforcement, coordination, and policy implementation in an increasingly complex spectrum environment. For defense, security, and critical infrastructure applications, it adds an important layer of direct RF visibility that can support threat detection, anomaly investigation, and situational awareness.

Overcoming the Limitations of Drive Tests and Field-Based RF Methods



Spectrum Viewer also addresses one of the longstanding limitations of conventional drive-test and field-based RF workflows. Traditional methods are often constrained by time, location, and resource availability, and they may miss transient, intermittent, or newly emerged conditions that occur outside the test window. thinkRF has long positioned SXM as a more autonomous and continuous alternative to these legacy approaches, enabling pervasive monitoring across regions rather than snapshots collected at isolated moments. Spectrum Viewer builds on that advantage by giving users a live window into the RF environment at the edge, combining the scale of distributed monitoring with the immediacy of direct spectrum access.

The Natural Evolution of the thinkRF Platform

This launch also reflects the strength of the broader thinkRF platform strategy. SpectraWare was designed to make advanced spectrum analysis more accessible through an intuitive software experience, powerful visualization tools, and compatibility with thinkRF's Realtime Spectrum Analyzer technologies. Bringing that capability into SXM creates a compelling combination: autonomous, cloud-connected spectrum intelligence paired with on-demand visual analysis at the node level. It is a natural evolution of the platform and one that expands both the practical utility and market differentiation of SXM.

From Alerts to Answers, From Investigation to Instant Insight

In a world where RF environments are becoming more dynamic, contested, and operationally important, organizations need more than dashboards and alerts alone—they need the ability to see what is happening in the spectrum, at the exact location where it matters, and to do so instantly. Spectrum Viewer delivers that capability, enabling SXM customers to move from indirect awareness to direct observation, while integrated record and playback ensures events can be captured, reviewed, and shared with full context.

A New Benchmark for Remote RF Awareness

With Spectrum Viewer, thinkRF is setting a new benchmark for remote RF awareness. It is a rare and meaningful capability in the market—one that gives customers the ability to see spectrum anywhere their SXM nodes are deployed across the globe. For organizations responsible for spectrum integrity, wireless performance, and network awareness, that is not just an enhancement. It is a new operational advantage.



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