About RMON Platform

RMon in brief

The Globberry Remote Monitoring for TETRA Networks solution combines a highly visual customizable dashboard, real-time network view and alarms, and detailed reporting functionality, in a web-based platform that integrates seamlessly with the Motorola UEM and ATIA protocols. With RMon, operators can monitor every element of the network, maintain the high level of performance and reliability that is essential, and manage the network strategically as it grows and evolves over time.

Globberry Remote Monitoring for TETRA Networks

TETRA networks serve a key role in critical infrastructure, enabling reliable, high quality field communications for a variety of organizations including public safety, transport and logistics, oil and gas, mining, and government agencies. Reliable and dependable visibility of the operation and performance of the network, at all levels from overall resource allocation down to the location of individual radio terminals, is essential to the smooth running of these networks. Alarms and alerts need to be responded to in a timely manner. Network performance needs to be reported in an easy to access and easy to understand way. Information needs to be available to plan how the network should evolve over time to make sure that it remains fit for purpose and high performing in mission-critical situations. Globberry Remote Monitoring for TETRA Networks, RMon, helps large-scale TETRA network operators monitor, maintain and manage their networks in order to meet all their operational and business needs, in a flexible, easy to use, future-proof platform.

The RMON Platform

The Globberry Remote Monitoring for TETRA Networks solution, RMon, has been specifically designed to integrate with Motorola Dimetra TETRA systems, providing a highly customizable, flexible and scalable solution. RMon leverages today's modern technology and architectural approaches to provide a high performance management system for TETRA networks that is easy to implement, intuitive to use, and seamless to scale to any required network size.

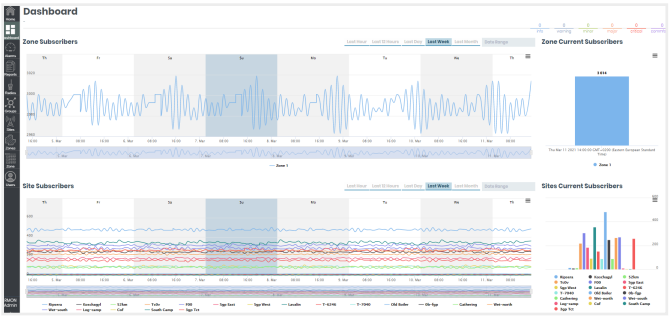
Just some of the key design considerations of the RMon solution are:

- In-depth integration for visibility at all network levels: RMon integrates with the Motorola UEM platform via SNMP and with the Air Traffic Router via ATIA protocol, enabling visibility of comprehensive network data at all levels of the network, providing unlimited detail for analysis, display and reporting purposes
- Highly intuitive, visual displays throughout, with a modern user interface making it easy to view relevant information and customize displays and reporting according to the operator's requirements
- Industry-standard, open-source approach: RMon uses industry-standard, open-source components throughout its architecture, including the Prometheus open-source monitoring solution and Apache Druid as the big data core for storing and analyzing large volumes of time series data
- Web-based solution,containerized deployment, and microservice architecture: RMon utilizes a modern architecture for ease of installation and flexibility, with the cloud-based architecture enabling enterprise wide access to the RMon functionality
- Fully customizable: RMon enables any number of customized, highly visual, reports to be specified, saved and used, rather than being limited to a small number of hard-coded, pre-defined reports, making the system highly individual to the requirements of each customer and its network

Key Features and Benefits

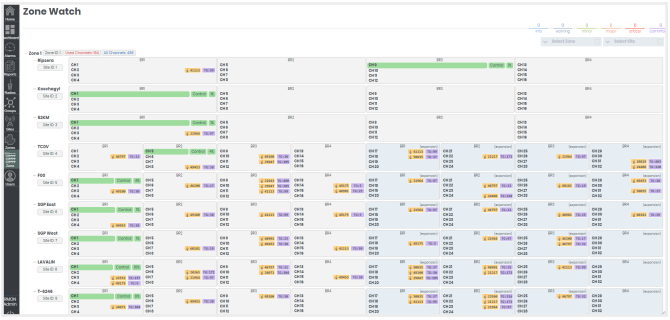
Highly visual, customizable dashboard

With large-scale networks, it is ***essential to be able to easily and quickly understand the overall load of the network***, together with what is happening with each and every element of the network. RMon provides a **real-time, highly visual dashboard** view of the entire network with base station load, channel allocation and details of ongoing calls. The dashboard also provides aggregated views of specific equipment and network functions over time, enabling the user to browse through the configuration and equipment at every base station site. The lightweight dashboard is accessible from any standard web browser. Its scalable design means there is no limit on the number of terminals, sites or zones that can be monitored, making it suitable for even the largest TETRA networks. With RMon, an operator can **monitor every element of the network** to make sure it is operating efficiently and effectively.



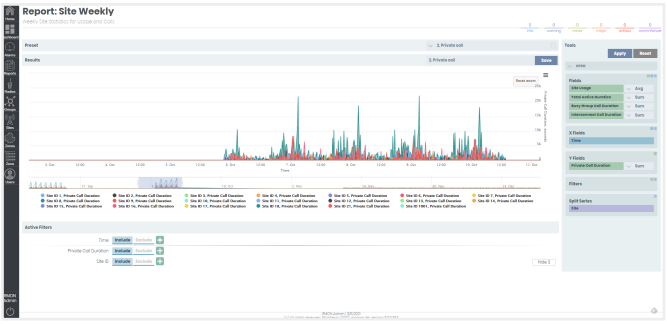
Real-time view and alarm alerts

In order to be able to quickly and accurately detect and resolve problems in the network, it is essential to ***track every element of the network in real-time***. RMon collects all the alarms from the Motorola solution and provides **real-time alarm notifications**, including KPI threshold notifications as required, enabling the user to take the appropriate troubleshooting action, such as switching radios to different sites or channels in cases of network overload. As well as real time health status information, the alarm management dashboard displays alarm history, for further analysis as needed. With the RMon real-time tracking functionality, individual radio terminals can be searched for, in order to locate the high value assets in the field. With RMon, operators can ***maintain the high level of performance and reliability*** expected from their TETRA network.



Detailed, customizable, reporting

In order to understand overall network performance and how it can be improved, ***it is essential to access comprehensive, customizable reports*** about every aspect of the network. The RMon solution makes use of the more than 70 parameters that the Motorola ATIA can provide, to enable an almost unlimited set of **reports that can be configured, saved and accessed**, specific to the needs of the organization. As standard, RMon provides five pre-set reports that cover the most common configuration requirements, such as ‘Site Metrics’ and ‘Terminals and Zones’, so that the system can immediately be put to use without needing to initially create reports from scratch. With the RMon reporting functionality, users can access aggregated utilization figures, track the history of channels, sites and calls for each radio, and analyze the performance of the overall network and plan future network expansion, to ***manage the network strategically as it grows and evolves*** over time.



For more information

Please visit **https://globberry.com/rmon/** for more information about Globberry and how RMON is helping TETRA users monitor, maintain and manage their networks, as well as learning more about the solution and its applications.