FLUIDMESH NETWORKS

FM MONITOR

FLUIDMESH MONITORING DASHBOARD WITH BUILT-IN INTELLIGENCE CAPABILITIES, FOR MAINTENANCE OF MISSION-CRITICAL OPERATIONAL TECHNOLOGY (OT) NETWORKS.

FM-MONITOR is a network-wide on-premises monitoring dashboard, allowing any Fluidmesh customer to pro-actively maintain and monitor one or multiple Fluidmesh OT networks. MONITOR displays data and situational alerts from every Fluidmesh radio in a network, in real time.

MONITOR supports fixed and roaming network architectures, and allows easier end-to-end troubleshooting of any Fluidmesh system. It can be operated as a stand-alone system or in parallel with a site-wide SNMP monitoring tool. It is designed to support Fluidmesh network installations as used in Smart Cities, Rail, Mining, Ports and Terminals, Entertainment, Smart Factories, and Military Applications.

FEATURES AND BENEFITS

01 **On-premises monitoring tool for Fluidmesh wireless networks**

02 **Wizard setup for Quick and Easy installation and deployment**

03 **Real-time dashboard displaying Uptime, Throughput, Latency, Jitter and other network KPIs**

04 **Customizable Section view, to easily check groups of radios**

05 **Customizable monitoring Alerts for prompt response**

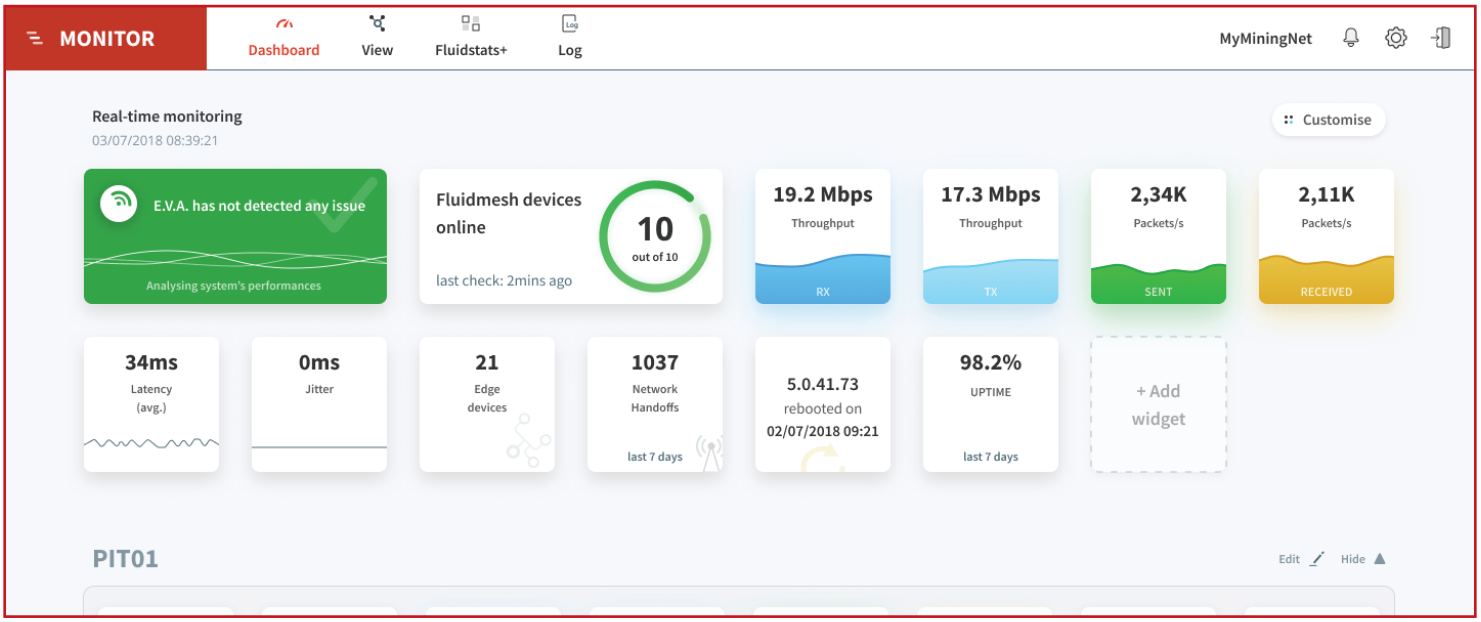
06 **Radio-by-radio data logging, with a minimum sampling interval of 300ms**

07 **Real-time radio configuration display for quick and accurate troubleshooting**

08 **Side-by-side comparison of radio KPIs over time and over vehicle position**

09 **Fast data exports**

DASHBOARD & TABLE VIEW



DASHBOARD VIEW:

The Dashboard shows overall network performance and offers customizable segmentation of the network into clusters. This allows easy monitoring of network sections or parts of a fleet of vehicles, maximizing network usage and performance. Clusters can include backhaul Point-to-Point links, Point-to-Multipoint distribution networks, vehicle access networks, wayside networks and vehicle-mounted radios. MONITOR displays and tracks real-time Key Performance Indicators within each cluster, including the number of active radios, number of connected IP edge devices, end-to-end latency, jitter, upload/download throughput in real time, and system uptime.

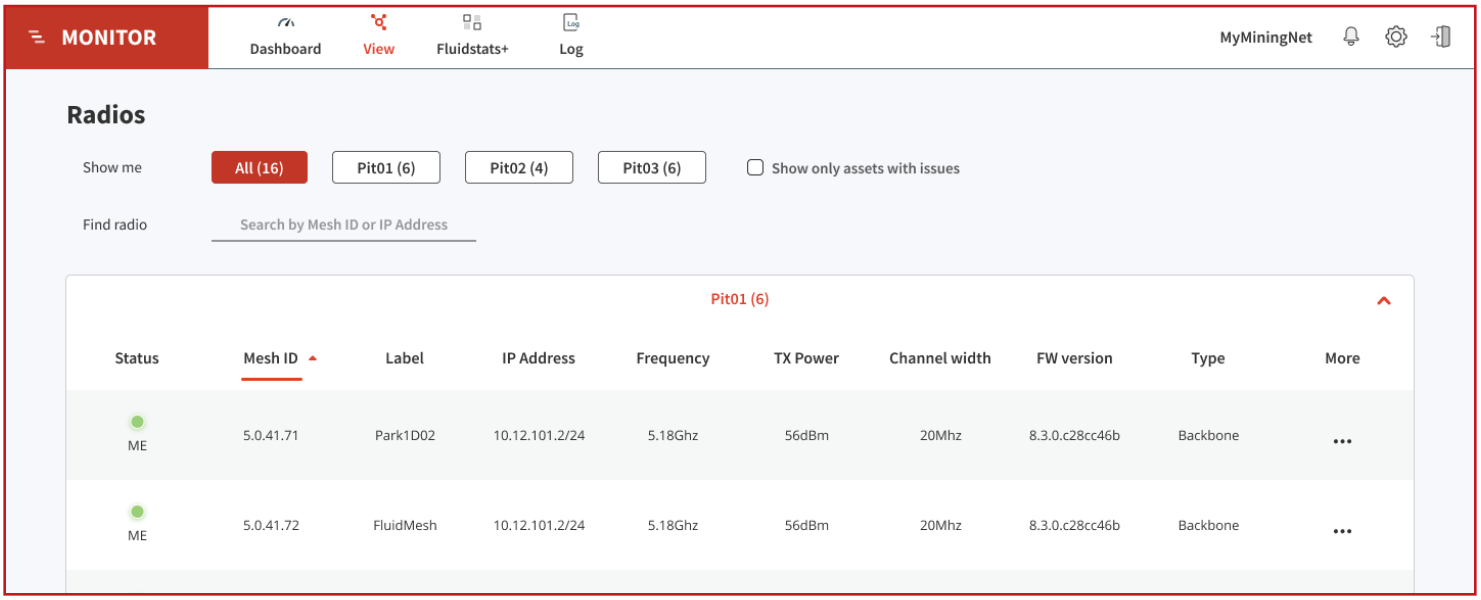
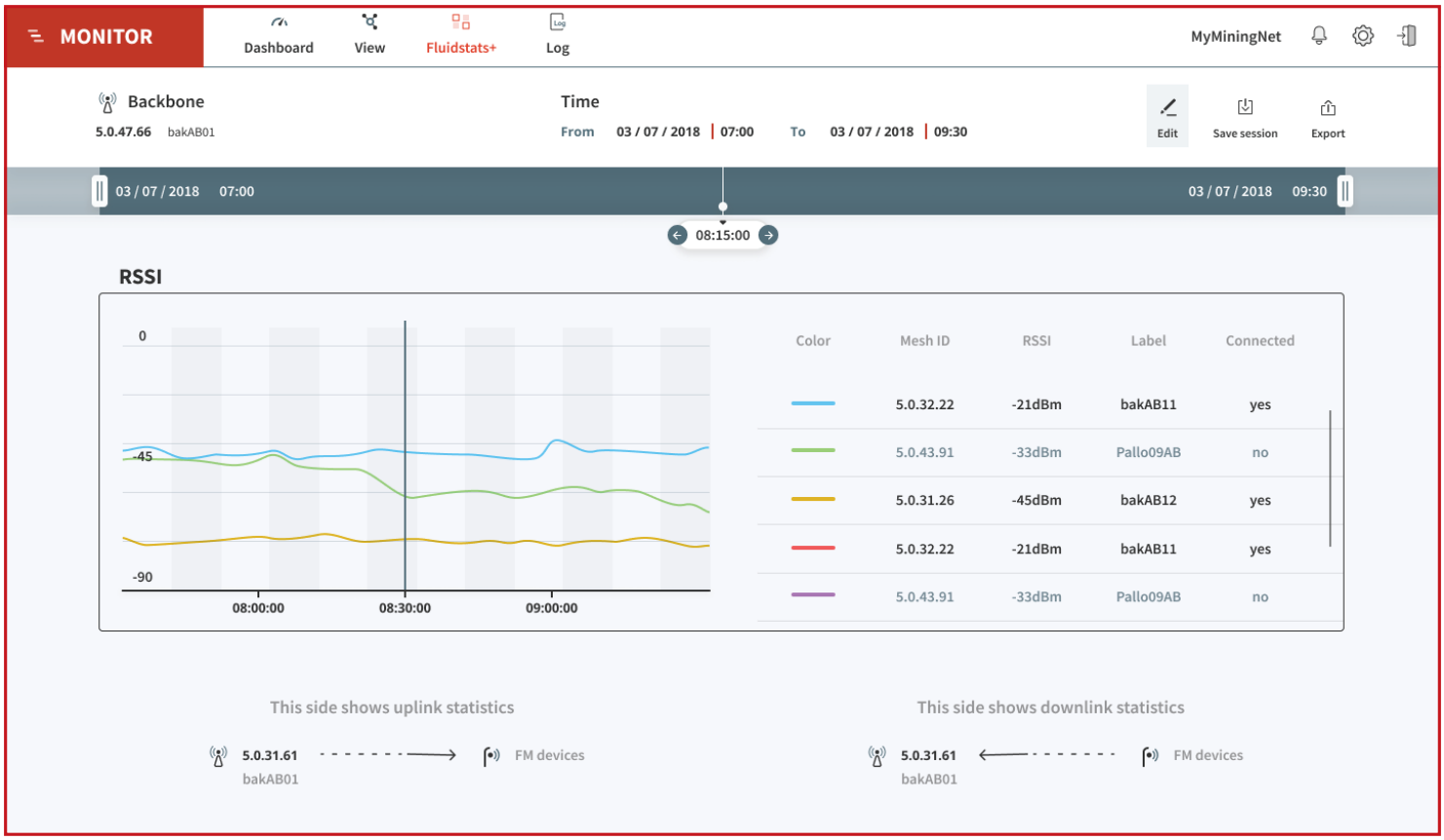


TABLE VIEW:

This allows customers to condense sections of the network into a tabular view, isolating specific radio configurations and performance statistics. During troubleshooting, this drastically reduces the time needed to understand system performance on a radio-by-radio basis.

DATA ANALYSIS



DATA ANALYSIS:

This allows data to be recorded from Fluidmesh radios at a user-defined rate. Individual radios and parameters can be analyzed at customized sampling rates, allowing comparative analysis of network performance over time while allowing better understanding of past network behavior and their future improvement. Sampling rates can be set to a minimum interval of 300 ms per radio, allowing data to be collected at a rate two magnitudes higher than the next-best SNMP monitoring tool on the market. This is particularly valuable where traditional SNMP or ICMP monitoring solutions are inadequate: for example, where a network has latency requirements of less than one second. Data can also be exported in different formats to facilitate easier, quicker reporting.

FM-MONITOR also allows customers to synchronize network information with available vehicle positioning data on a real-time map. This is particularly valuable in environments such as mines, where wireless infrastructure has a dynamic nature, or in container terminals where RF network performance can vary dramatically depending on current location. Live positioning data can be imported from vehicles or by using an external GPS device.

FLUIDMESH NETWORKS

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