

OMS for GSM-R

Operations and maintenance system for GSM-R networks
Ensure highly reliable operations



Train drivers have a demanding job. They have to navigate their train through a complex system of tracks and switches, deal with heavy traffic, and be aware of a multitude of signals and traffic information. There is little margin for error - the lives of hundreds of passengers depend on the smooth interaction between persons and systems.

That's why train drivers and all the others who are responsible for flawless train operations depend on a perfectly managed GSM-R network to provide flawless communication service quality, no matter how far away they are from the station.

OMS for GSM-R is the comprehensive operations and maintenance system that allows you to reliably and efficiently manage your GSM-R network throughout its entire lifecycle. By automating the majority of the complex behind-the-scenes tasks, the system significantly increases your operational efficiency while also improving the service quality.

Thus all subscribers, from train drivers to field workers, receive customized and targeted information - resulting in a significant rise in passenger safety. Especially in heterogeneous network environments, OMS for GSM-R automates or simplifies service assurance workflows. Due to its intelligent filtering mechanisms and high usability, it prevents and clears network faults and increases network performance. In a blink, OMS for GSM-R delivers a transparent end-to-end view of your entire GSM-R infrastructure in order to optimize asset utilization, control costs, and comply with local regulations. The software also takes care of your billing needs, from collecting usage data to creating finalized bills.

OMS for GSM-R improves the effectiveness of your Operations & Management Center (OMC) by creating work orders for preventive maintenance as central input for workforce planning. Our open native mobile client synchronizes the information flow between your OMC and your remote staff in real time to ensure effective field services.

OMS for GSM-R - increasing operational efficiency

- Up to 70% reduction of personnel costs in the operations center
- Up to 60% cost savings from using mobile agents
- Up to 97% reduction of alarms
- Discovery of 40,000 free network resources, resulting in savings of €1,000,000

Results achieved in international projects

Fault management and performance monitoring - ensure best end-to-end service quality

OMS for GSM-R detects network faults long before crucial subscribers will notice any disruptions or changes in their service. It correlates and filters the multitude of alarms and KPIs generated by affected network elements, performs root cause analyses and issues automatic trouble tickets, giving you the chance to immediately initiate action. Moreover, OMS for GSM-R provides applications to increase the performance and quality of your GSM-R services and prevent faults.

Asset information management - benefit from an all-embracing view

The integrated asset information management that tracks and actively manages all your physical and logical resources is at the core of OMS for GSM-R. It provides documentation of your entire stock, and it makes your processes more efficient by correlating interworking assets as well as establishing an end-to-end view of the whole value chain.

To optimize maintenance, OMS for GSM-R suggests preventive procedures based on sophisticated prediction tools and provides efficient spare parts management. And, finally, it documents the entire lifecycle of your assets, allowing you to track all related activities as well as to identify recurring problems.

Provisioning - enable services quickly and intelligently

To assign every train driver or dispatcher with the communication services they need, OMS for GSM-R streamlines the provisioning of your GSM-R subscribers in multi-vendor and multi-technology network elements, like the HLR (Home Location Register), the IN nodes (Intelligent Network), and the OTA (Over-the-Air) system. It utilizes activation profiles, templates, and a huge library of network element connectors, ensuring that any change of subscriber configuration data will be swiftly implemented in the live network - causing no disruptions in service.

Billing - ensure all costs are assigned and billed correctly

In order to manage internal costs and to balance accounts for roaming and inter-carrier connectivity, OMS for GSM-R automatically

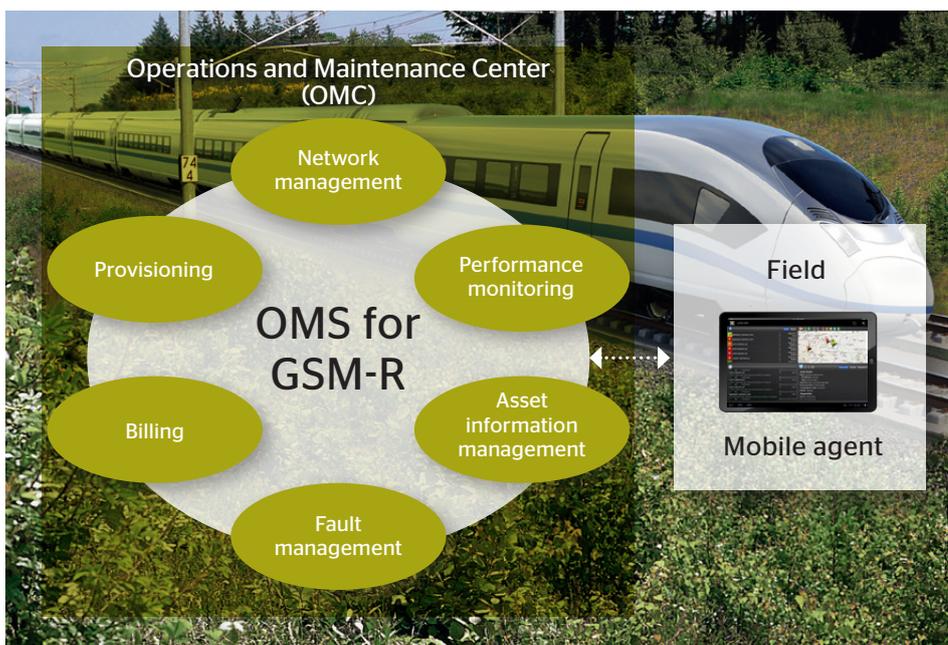
takes care of the entire process from collecting, rating, and billing of usage records down to bill generation.

Mobile client - provide ubiquitous access to the OMC

Our native client expands your OMS environment into the mobile realm. It presents an overview of the most relevant information from the OMS applications, giving your operators and field service engineers a detailed and consolidated view of your networks' assets and services on their tablets and smartphones - from any location that has mobile reception.

Utilizing its intuitive, user-friendly, touch-based graphical user interface, field service engineers can access all the data they need to accomplish their duties. They use reports to communicate progress, provide scans of work status, and send feedback. Thus, the OMC gets a real-time view of all field operations and can take appropriate measures whenever necessary.

OMS for GSM-R is the comprehensive operations and maintenance support system that allows you to reliably and efficiently manage your entire GSM-R network. It provides state-of-the-art fault management and performance monitoring as well as a comprehensive asset information system. An open mobile client synchronizes the information flow between your OMC and workers in the field to optimize workforce performance.



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