Legend

■ (red)	Four or more failures
■ (orange)	Two or three failures
■ (yellow)	One failure
□	all others

Basingstoke_seamless

0 ————— 1.61
kilometers

TRACES

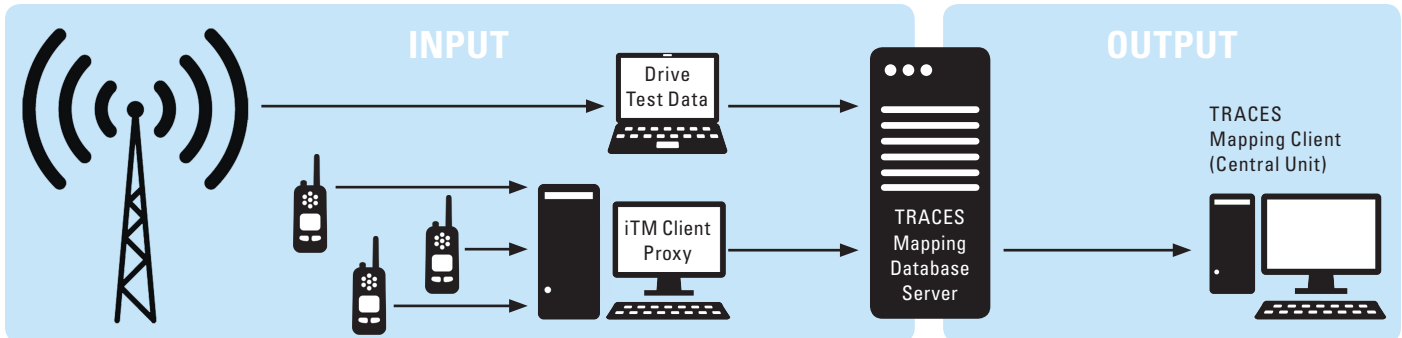# ENSURE NETWORK COVERAGE AND PERFORMANCE IN MISSION CRITICAL SITUATIONS

Your workforce depends on mission critical networks to communicate on a day-to-day basis. Ultimately, people's lives may depend on the availability and reliability of these networks. That is why you need to ensure the best network coverage and performance possible for your users – at all times. To help users get the most from your TETRA network, Motorola has developed a cutting-edge service: TRACES. This solution helps you visualise network issues and enables you to rapidly identify failures, trouble spots and performance challenges. It brings significant cost savings, a cost effective way for you to track network performance SLAs and enables quicker resolution of

coverage issues reported by end users. As a result, you can rest assured that your colleagues are getting the coverage they need, when and where they need it.

Motorola TRACES, the TETRA RF Automated Coverage Evaluation Solution, is an innovative application designed to empower you, the network administrator, with immediate and ongoing access to network coverage data – that was previously challenging and costly to obtain. By collecting network data generated in the field, TRACES enables you to monitor and evaluate network performance – providing both a high level view and the capability to drill down into detailed analysis of individual elements.

Our unique solution consolidates network data from multiple sources into a single view and provides extensive visibility into network coverage and performance.

TRACES – ELEMENTS OVERVIEW

FEATURE	BENEFITS
Automated collection of network data from Motorola TETRA terminals using Motorola iTM R 4.0	Rapidly pinpoints network issues and enables report generation, avoiding the lengthy, manual issue-logging processes
	Provides a clear picture of trouble spots based on real-world data from the workforce
	No additional traffic on the network as data is backhauled independently of the TETRA network via iTM – also avoids need to gain operator permission
	Allows visibility into network coverage and performance; arms you to use this insight to generate reports and verify that network operator SLAs are being met; ultimately helps you look at ways to optimise performance in collaboration with your operator
Automated analysis of drive test data	Simply upload drive test data to the TRACES server: • Eliminates the need for specialist resources to analyse metrics – saving you time, money and giving you greater flexibility • Automated processes ensure consistent analysis methodologies are deployed – enabling accurate historical trend analysis and comparisons
Central consolidated platform with easy-to-use interface	Enables simple historical analysis (failure location by grid square, failure by cause, serving cell received signal strength indication (RSSI)) Significantly lowers administration effort
Can be utilised on TETRA network infrastructure equipment supplied by various vendors	No re-investment required to utilise TRACES – use Motorola terminals and iTM to collect data on multi-vendor network infrastructure
Fully compatible with industry standard mapping software – MapInfo	Reduces training effort Enables import of existing data e.g. definition of boundaries, maps, etc.

THE MOTOROLA DIFFERENCE

As the market leader in TETRA solutions and mission critical services, we understand the challenges you face in today's rapidly evolving communications environment. We offer a range of services across the solutions lifecycle – from initial concept design and implementation to ongoing management and support of your TETRA solution – including network performance and optimisation services, end-to-end network and applications integration and much more. From technical support to fully managed services, our experienced teams can help define and deploy the ideal solution for your organisation.

For further information on TRACES (the TETRA RF Automated Coverage Evaluation Solution) or any of Motorola's Services, please contact your Motorola representative or visit www.motorola.com/TETRA

MOTOROLA

HOW DOES IT WORK?

TRACES automatically combines data from multiple sources, in a single, easy to use interface, to provide an accurate visualisation of your network's coverage and performance. All data is stored centrally, helping you keep track of your network over a longer period of time.

For the first time, it is possible to collect and visualise network data stored on end user terminals via Motorola's Integrated Terminal Management platform (iTM) [1] – without making changes to network or daily activities. At the end of each shift, terminals are docked into the iTM charger and information on network performance is automatically transferred to the central TRACES server while the radio battery is being re-charged. TRACES consolidates these real-world metrics in a single, central application and provides you with up to date information on the quality of TETRA network coverage – pinpointing link failure, downtime and other errors.

TRACES also enables you to leverage data from drive tests, both current and historical. Drive test data is simply placed on the TRACES server and automatically uploaded to the application, providing immediate ability to view and manipulate the information.

MORE POWER TO YOU

TRACES provides an automated, quick and simple method for you to effectively collect and analyse data, and generate your own reports. The application provides enhanced reporting and analysis capability, enabling you to filter data as required, including: by site; failure cause; location and user. As a result, you have greater and more up to date insight into your network performance and can verify whether your TETRA network service provider is meeting service levels and other KPIs.

TAILORED TO YOUR NEEDS

TRACES is available on a per-user licence basis and setting up the solution is quick and easy. Working with Motorola experts, it is installed and configured in line with your unique requirements. Customisation includes definition of parameters such as site lists, coverage predictions, geographical and user boundaries. This ensures that TRACES meets your specific mission critical network evaluation and reporting needs – and helps you leverage the solution to its full potential.

1) iTM (Integrated Terminal Management System) is Motorola's efficient Tetra radio management solution for centralised and automated radio programming, software maintenance and upgrade. To implement TRACES, customers must have drive test data available and/or have Motorola iTM release 4.0 or later and subscriber software MR 5.10 or later.