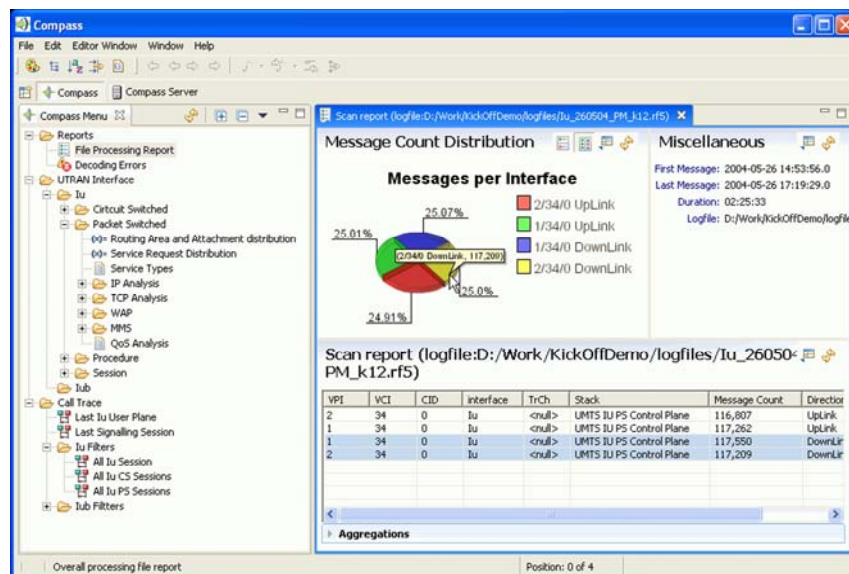


# Compass 3G

WCDMA analysis, troubleshooting and optimization



Compass 3G features an intuitive and easy-to-use interface providing you with in-depth statistical and graphical reports to enable prompt trouble resolution and network optimization if required.

**Delivering UMTS is key to the future business of wireless operators.**

To stay ahead of the race to launch UMTS networks and services, Compass 3G gives you the opportunity of gaining additional revenue from high-throughput data services and the lower cost of delivering voice.

Compass 3G, the state-of-the-art post-processing analysis solution for troubleshooting and optimization, enables you to expedite your UMTS network rollout and maintenance. With Compass you can improve ROI and reduce costs through efficient deployment of network and services.

## KEY BENEFITS

- Implement new services faster with higher quality to stay ahead of the competition
- Reduce network downtime and improve Quality of Service through rapid detection and resolution of faults and service degradation
- Improve operational efficiency through efficient utilization of your resources



Analyze - Optimize - Troubleshoot		
<p><b>Analyze</b></p> <p>Compass 3G features a variety of advanced statistics:</p> <ul style="list-style-type: none"> <li>• Radio analysis - in addition to tracking radio strength and quality it also tracks Bit Error Rate [BER] and Block Error Rate [BLER] and SIR</li> <li>• Call tracing / message decoding - follow the progression of UMTS signaling transactions to determine a point of failure. Analyze Iub, Iu-CS and Iu-PS interface traffic</li> <li>• User plane – get IP statistics such as TCP, MMS, WAP including analysis of RTT</li> </ul>	<p><b>Optimize</b></p> <p>Compass 3G's optimization features allow:</p> <ul style="list-style-type: none"> <li>• Resolution of network congestion and frequency planning problems by "zooming in" from overall statistics to detailed individual call traces</li> <li>• Maximizing the opportunity to reconfigure existing equipment rather than making expensive new capital investments</li> <li>• Use advanced KPIs, such as transfer delays, throughput analysis and failure rates to locate candidates for optimization</li> </ul>	<p><b>Troubleshoot</b></p> <p>Compass 3G provides all the troubleshooting assistance you need:</p> <ul style="list-style-type: none"> <li>• Reduce network downtime through the rapid detection of faults</li> <li>• Understand the causes of network degradation and rapidly implement and test solutions</li> <li>• Find particular subscriber sessions and activities</li> <li>• Find problems with intra / inter RNC handovers and ping pong handovers quickly</li> </ul>

Compass 3G is designed to:

- Accelerate UMTS network deployment, planning and future expansion
- Statistics and correlation of interfaces based on sessions created by your customers and not just a few test phones in the lab
- Support multiple brands of probes and analyzers
- Top-down testing, from high-level statistics to protocol details with full decoding

**Understanding network performance is key when deploying, troubleshooting and optimizing 3G access networks and services.**

**As UMTS networks are deployed, mobile operators are faced with new challenges. WCDMA, ATM and IP require different analysis methods than have been used previously.**

**Traditional tools such as OMC counters, drive tests and protocol analyzers do not provide a complete picture of the behavior of a UMTS network or service. From one single file of network data, Compass 3G provides overall statistics as common OMCs and correlates protocols, technologies & network interfaces providing details which correspond to thousands of usual drive tests.**

Compass 3G builds on the success and experience of Compass GSM and Compass GPRS and enables you to rapidly resolve the most challenging performance and functional problems.

Compass 3G is based on the third generation platform of Compass using a completely new state-of-the art Graphic User Interface and database framework. This ensures full scalability and usability, making Compass 3G a future-proof solution. The new platform is client-server based allowing you to create multiple users and workspaces. That also means that you can store multiple recordings and share them among different users.

Compass 3G analyzes signaling and user data obtained directly from the network data. It provides detailed reports containing reasons for attachment failures, failed calls, and soft as well as softer handover problems.

Compass 3G allows you to check every failure in depth using the message sequencing and tracing functionality that visualizes the progression of signaling transactions across multiple interfaces.

Compass 3G gives you all-round flexibility and precision with a complete network overview at all times together with detailed views when required.

With Compass 3G you can define your own thresholds and expressions allowing you to customize the default appearance and results of the analysis.

Compass 3G is part of NetTest's UMTS portfolio, the most complete suite of products for monitoring and testing UMTS networks.



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NetTest develops and markets operational support solutions that provide unique insights into the function and performance of telecommunication networks so that owners, operators, and vendors can make informed business decisions that drive their profitability.