

# 3GMA

## Data Export

3GMA is designed to fit perfectly into your data processing chain. We believe in openness and versatility. This begins with various exporting functions, from raw data to transaction and QoS level.

Our measurement data format is fully documented and free to use throughout your entire organisation.

## Features at a Glance

- Compose your own 3GMA: Cost efficient due to individual configuration possibilities
- **All-in-one tool:** Test-, measurement, analysis and reporting
- Capable for many different service testcases
- Various types of data visualisation
- Rich portfolio of analysis tools
- Perfect hand-in-hand-working between these tools
- Various data export functions
- Integrated QoS and Report Generator with drilldown functionality
- Integrated Crystal Reports® and Microsoft® Excel®
- Possibility to move from KPI level to transaction level views and from there to the point in the measurement data where the problem is situated
- Automatic analysis of call problems (FITA)
- Call Analysis Centre

## Focus Infocom's Expertise

Focus Infocom assists network operators in achieving success under fast progressing and challenging market conditions. As a specialist in testing and measurement systems for mobile communication networks, we understand our customer's needs. With more than ten years of experience in this highly dynamic field, we offer powerful, efficient and user-friendly tools and solutions.

## Range of System Solutions

- Interactive measurement
- Unattended measurement
- Analysis
- Turnkey/19" Systems
- Benchmarking Systems
- Evaluation and Reporting

All our products have a modular design, offering high flexibility to deal with our customer's requirements and full compatibility due to optimally inter-balanced system components. This allows an optimum in hand-in-hand working.



## High-end Measurement and Testing Tools

For 2G, 2.5G and 3G Wireless Networks

## Successful Measurement, Analysis and Reporting

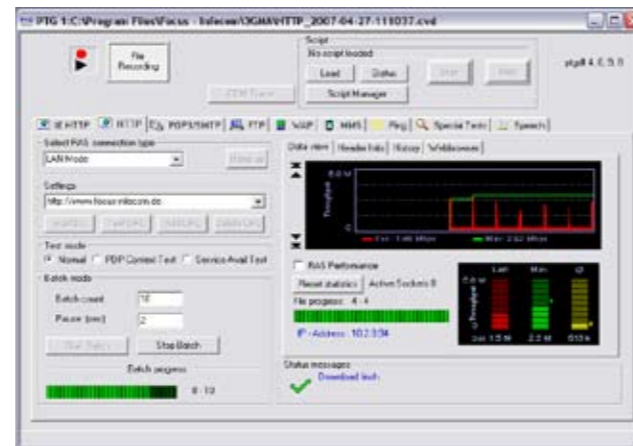
Do you need a single stand-alone software tool or a company-wide measurement solution? We have the tools for your demands!

Our dedication and expertise assist you in being successful.

## 3GMA is a standard in

- Diagnostics
- Optimisation
- Benchmarking of networks
- QoS and reporting
- Testing from user's point of view
- Benchmarking of user equipment

- E-mail
- WAP
- Speech (ITU-T 862.1)
- Video Telephony
- Web Radio



## ... and Visualisation Capabilities

3GMA offers the right type of visualisation for every task:

- Multi-file Geo Map Views
- Full Node B relationship visualisation
- Fully configurable multi-track time-axis view
- Versatile multi-level Message Browsers
- Correlation views, vector and data views

All of them fully customisable and synchronisable, and with real-time capability.

## Professional Analysis

Efficient work means getting the information to make the right decision quickly and easily. 3GMA provides measurement and analysis capabilities in a single tool, e.g.

- Transaction View
- Best Server and Server Usage Analysis
- SIB Analysis
- Layer 3 Full Text Finder

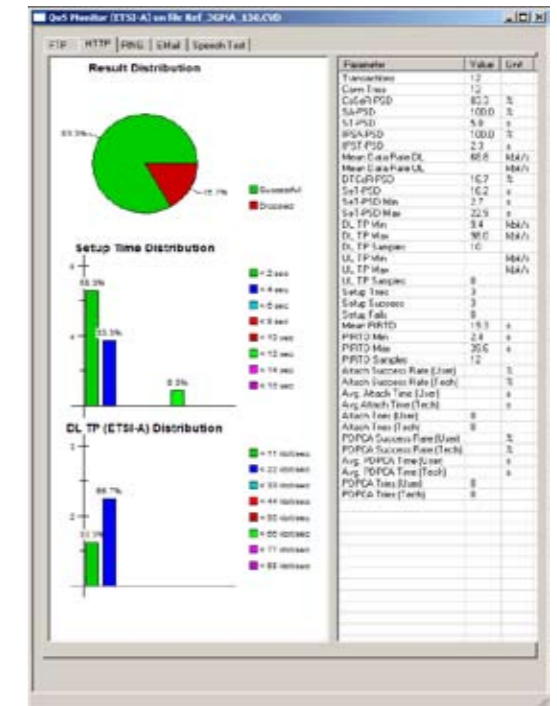
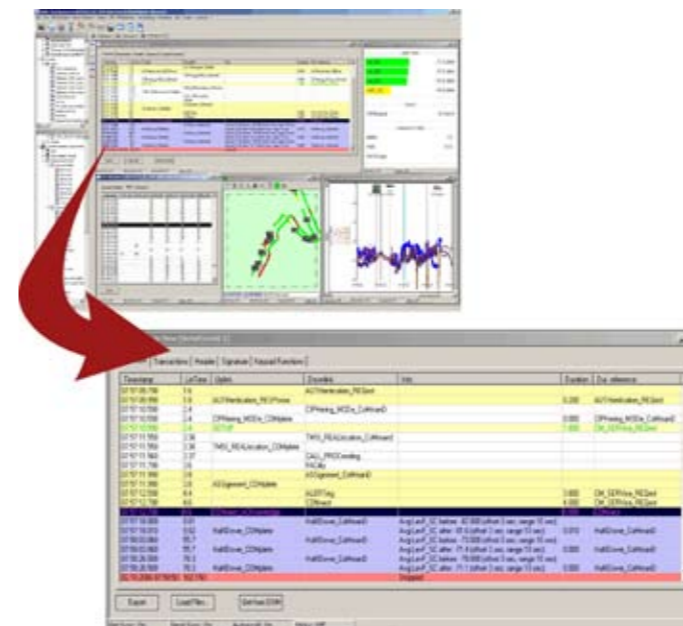
All of these tools work together perfectly to assist you in your analysis tasks – no matter how complex they are.

## Power Feature: Automatic Analysis of Call Problems

The expert module FITA provides automatic root cause analysis on nonsuccessful calls and data transactions. With more than 40 different classification categories, it helps experts to do their work by freeing them from routine work.

## Power Feature: Call Analysis Centre

Call Analysis Centre is a multi-functional control centre which makes analysis of 2G calls easy. It integrates multi-file overview and drilldown with detailed Layer 3 view and handover analysis.



## Power Feature: QoS Reporting with One-mouse-click Drilldown

Extracting top-level information fast and effectively out of huge volumes of data is what counts. 3GMA provides

- High-level QoS reporting
- Sophisticated one-mouse-click drilldown and analysis features
- Easy processing of multiple files to QoS KPI
- Ready-to-present reports in various formats by means of integrated Crystal Reports®
- Integrated Microsoft Excel® to create technical reports rich in data ready for further refinement

3GMA supports respective QoS KPI according to ETSI TS102 250 plus a rich set of additional KPI and diagnostic information.

## Solutions for all Demands

3GMA is a sophisticated measurement and analysis solution for current and future mobile networks. It accompanies our customers from network rollout right through to regular quality of service evaluation - user-friendly, (cost) efficient, flexible and future-proof. Many service testcases are available.

## Versatile Measurement ...

3GMA is capable for measuring more than 15 service testcases, e.g.

- HTTP, Internet Explorer® HTTP
- FTP
- Ping
- UDP
- SMS, MMS