

ACTLight

ACTLight Highlights

- Cost-efficient and handy
- Host-based technology: Centrally controlled
- Testing from the user's perspective (ETSI-standardised QoS KPI)
- Geographic and mobility information
- OTA (Over The Air) data transfer
- OTA software updates
- Fully automated processing chain
- Fully integrated to Focus Infocom's analysis and postprocessing tools

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 almost 15 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.



Smartphone-based Long-term Testing and Monitoring

For 2G, 2.5G and 3G Wireless Networks

Cost-efficient Smartphone-based Autonomous Testing

The Smartphone-based ACTLight provides a simple and cost-efficient way to realize autonomous long-term multi-mobile tests.

At the same time it offers full compatibility to Focus Infocom's 3GMA analysis and FIMAS postprocessing tool.

Autonomous Measurement from User's Perspective

ACTLight is a Smartphone-based data logger for Symbian® Series 60 phones. It is dedicated for cost-efficient and easy to handle long-term testing and monitoring from user's perspective (ETSI- standardised QoS KPI). Only a Trace Mobile and - if applicable - a Bluetooth GPS receiver are needed.

The tool offers a rich set of diagnostic data.



Basic functions are

- Speech Tests
- Internet Radio (Shoutcast)
- Conventional data tests, e.g. FTP and HTTP
- Video Telephony

The implemented Software Watchdog offers a high degree of system stability. Data transfer goes over the air (OTA).

ACTLight is currently available for Nokia 6630 and 6680 trace mobiles as well as for N80 and N95.

At the same time it provides all capabilities of 3GMA analysis and FIMAS postprocessing products.

Data Visualisation and Analysis

For visualising and analysing your measurement data, 3GMA is the perfect tool. 3GMA offers individual configurations and the right type of visualisation for every task: e.g. geographical visualisation with GeoView, a QoS Monitor and the Call Analysis Centre for analysing special cases of call problems. The expert module FITA provides automatic root cause analysis on non-successful calls. A QoS and Report Generator, including a drilldown functionality, is also integrated.

Embedded Crystal Reports® and Microsoft® Excel® make data visualisation, analysis and even reporting

Relay Server

To use PS (packet switched) data transfer, a Relay Server is necessary to overcome security and IP problems. This enables much faster data transfer than the conventional CS (circuit switched). The FleetManager connects to the relay server, using Ethernet (public port 80, own protocol). The ACTLight probe connects to the Relay Server using UMTS / GPRS. One Relay Server can handle several ACTLight probes and several FleetManagers as an N to M matrix connection. It is also possible to use a special APN to make secure transfers to an intranet.

ACT-Light Measurement Data Server

ACT-Light uses a FTP Server to deliver the recorded measurement results and receive new testcase settings (measurement jobs). The FTP

Server is connected by the ACT Light Proxy Server to download the measurement results to the proxy and to store new testcase settings for the ACT-Light probe.

The FTP Server is used merely as a transfer channel with storage capability. Any FTP server can be used, although it needs to provide a certain set of features and commands such as being able to restart the transfer of a partially transferred file.

ACT-Light Proxy Server

All ACT-Light Probes use a proxy to connect to the FleetManger via the Relay Server. This Proxy encapsulates the FleetManager-Protocol and makes the ACT Light Probes look like standard ACT Units to the FleetManager. All measurement data that is recorded by the ACT-Light probes is downloaded by the proxy. The proxy converts the measurement data to standard .CVD files that can be read by all Focus Infocom products. The converted measurement files are sent to the FleetManager through the Relay Server.

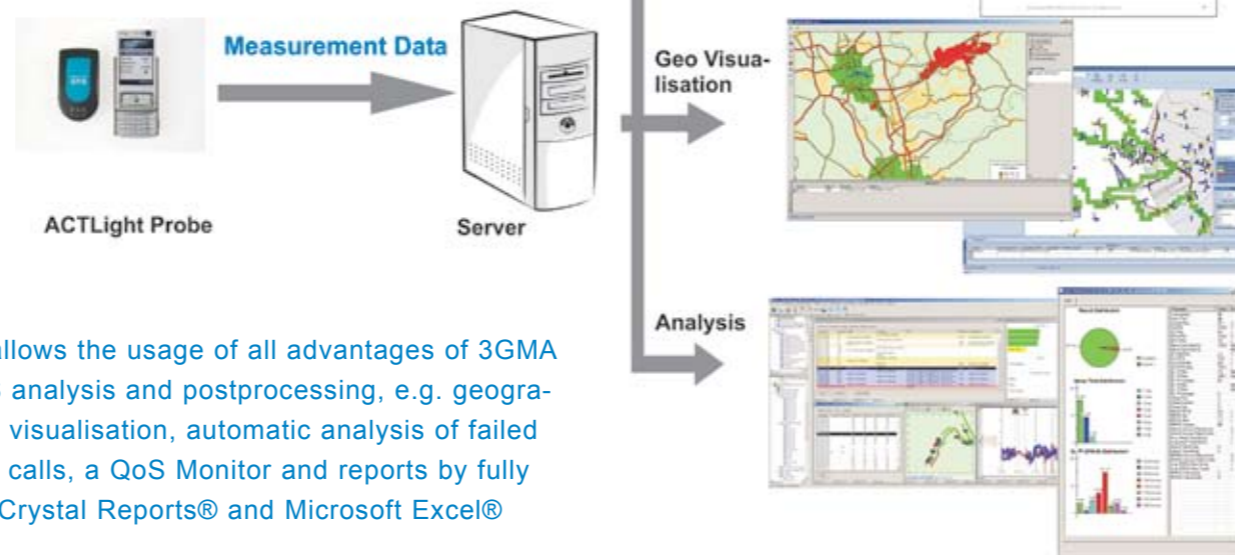
The Proxy Server needs to be reachable through the internet (using one port) and must be able to connect the desired Relay Server.

Postprocessing and Report Creation

Focus Infocom's postprocessing tool FIMAS perfectly supports the the full range of data processing and handling, from importing raw data to high-level QoS reports and comprehensive transaction-level analysis.

The FIMAS Evaluation Centre, with its multi-site capability, offers functions such as

- Report Shell,
- Map-based geographic analysis and visualisation (MapView),
- Fully integrated Crystal Reports® and Microsoft® Excel®,
- SQL Query Manager,
- Drilldown control.



ACTLight allows the usage of all advantages of 3GMA and FIMAS analysis and postprocessing, e.g. geographical data visualisation, automatic analysis of failed or dropped calls, a QoS Monitor and reports by fully integrated Crystal Reports® and Microsoft Excel®