

ACT



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.

Autonomous Coverage Tester

for 2, 2.5 and 3G Networks

Solutions for Success

Unattended measurement is the key word for increasing the productivity of quality assurance in mobile networks. Standard tasks of network coverage and quality of service monitoring are performed by automated equipment. Highly qualified technical staff can be assigned more demanding activities.

The ACT system provides automatic operation throughout the whole chain of data acquisition, transfer and storage, pre-evaluation, and – using 3GMA, FIMAS or RCV – visualisation. Focus Infocom's Autonomous Coverage Tester offers easy operation, versatile functionality and excellent value for money.

Designed for Value

Rugged Mobile Units

The mobile units are designed to operate under adverse environmental conditions. They have a wide operating temperature range, versatile power management, and sophisticated self-test and self-configuration capability.

Fully Programmable Activities

By defining measurement jobs, the operator defines the service to be measured (speech, data,...) as well as the threshold-velocity limits for measurement activity.

Secure Data Transfer to Host

Measurement data is recorded in high-density data files. Additionally, file segmentation, compression techniques and a secured transport layer assure high upload throughput and stable operation even under conditions of weak radio coverage.

System Overview

ACT consists of one or more mobile test units (MTU) and one or more stationary parts. The key feature is the intelligent information management.

That means:

- Easy offline definition of measurement job
- Easy-to-prepare Script for Service testing
- HTTP, FTP, SMTP/POP3, WAP, UDP and speech test according to PESQ P862.1
- Optional: SMS and MMS

Several types of trace mobiles are supported

(Sagem, Nokia, Qualcomm on request).

When MTU connects to a stationary part it automatically requests a measurement job and transfers status information and data. The highly developed automated data transfer management uses measurement breaks for data transmission. As a result ACT offers highly efficient data collection because there is no loss of measurement time for administration activities.

ACT uses its robust data transport layer to connect, including block repetition, block CRC verification and call retry function. An incremental data transfer will reiterate until transmission has been successful.

No backup features on MTU are necessary. Sending after a predefined time and any time demand from the controller are possible.

ACT uses a secured callback mode for communication setup with the fleet manager. The system allows easy checking of the position and status data of MTU, such as primary supply voltage, mobile supply voltage, battery backup voltage and system temperature.

In case of malfunction, ACT offers an automated status transmission to the stationary part of the system. A built-in SIM switch allows optional monitoring of 4 networks. An integrated switchable attenuator allows in-house or deep in-house measurement. The included Batch Manager software automatically pre-analyses the collected data.

