



MOSET – Mobile Service Performance

TECHNOLOGY OVERVIEW

MOSET uses a mobile phone as an instrument to measure performance of networks from the user point-of-view. The purpose of the MOSET tool is to measure the latencies that are visible to users over different networks such as GPRS, EDGE, UMTS, WLAN, Wi-Fi. MOSET is an active measurement tool that produces data describing service quality which is the sum of mobile phone, mobile network and mobile service data transfer speeds.

APPLICATION

MOSET consists of a measurement server located at the network and a measurement application located in a mobile phone. The developed system can be used to measure the user experienced performance from the mobile phone to the measured service. After installation, user can start the application and select from one of the available tests. User can execute one of the tests in the mobile phone. The measurement application logs the time needed to complete the requests (i.e. the connection times and the time needed to load the service content into the phone). Each parameter can be customized to create different set of measurements and tests. After the tests are run, user can send the results back to the measurement server for further analysis and to be edited by other tools. The tool supports most mobile phones and serves the needs of users independently of time and place.

MARKET TRENDS AND OPPORTUNITIES

Being able to measure and monitor the real life performance and quality of service experienced by end-users using real devices and mobile networks is becoming more and more important to network management, network operators and mobile service developers. This is especially important as the size of the downloaded content increases and new media services like streaming video and voice are being offered.

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PRODUCT/ TECHNOLOGY FEATURES

- Measures total end-to-end delay visible to end-users. The application logs the time needed to complete the file transfer requests i.e. the connection times and the time needed to load the service content into the phone.
- Each parameter can be customized to create different set of measurements and tests.
- Measurement data is automatically transferred for analysis purposes from mobile phone to a central server over the mobile network.
- The server allows users to load the measurement application into mobile phone using OTA (Over The Air Provisioning) loading.

CUSTOMER BENEFITS

- Tool provides delay and throughput values over various wireless networks as experienced seen by the end-users
- Tool eases development of new mobile services, monitoring of online services and comparison of end-user terminals
- Measurement data is stored for post analysis and processing

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