Is your network Video Quality excellent?

UMTS opens multimedia applications a new world of possibilities. Customised infotainment like streaming video, video messaging, mobile TV and video telephony offer an unique opportunity to create a market for highly personalised and truly unique mobility services. For mobile customers the quality of services is decisive for acceptance; especially for motion picture based services, quality is the key factor to success.

SITE delivers perceptual quality measurements to reproduce the subscriber's quality impression mapped to the mean opinion score, similar to other quality tests.

Be sure that your network's new multimedia applications are more then just moving colour pixels.

SIGOS offers you a fully automated Video Quality Test System!

Features
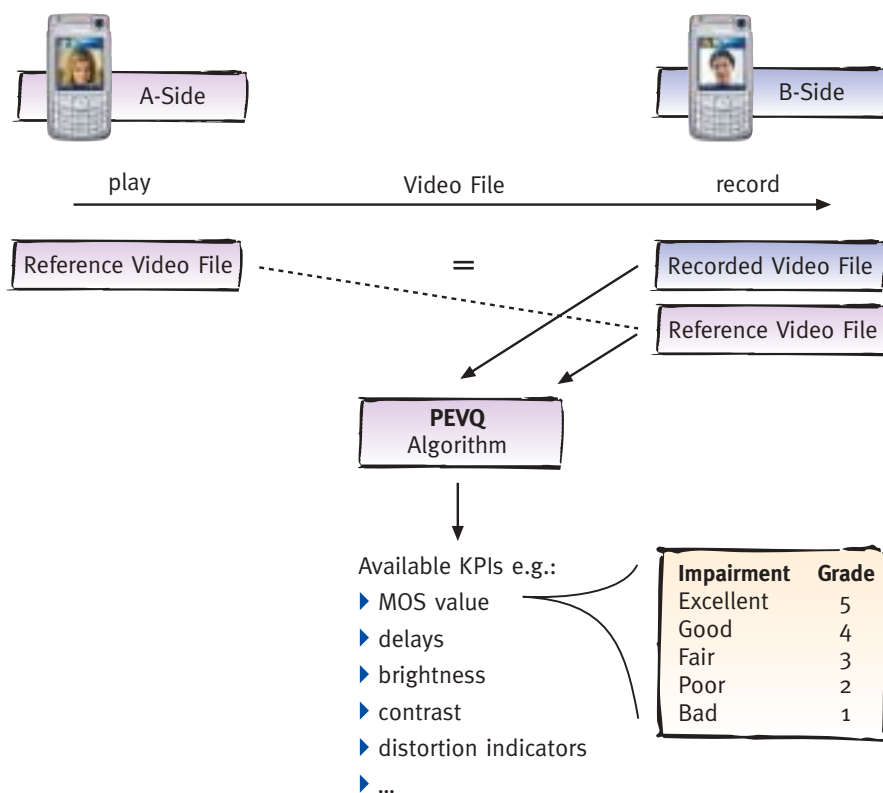
- Simulation of real subscriber behaviour
- Over the air testing
- Central SIM Multiplexer: infinite number of SIM cards can be managed
- Interfaces: UMTS U_u
- Customer specific video reference files are easy to ingrate

- Real End2End Testing of real-time video services (video telephony, video streaming, video messaging)
- Objective MOS Video Quality result values from 1-5 (bad, poor, fair, good, excellent)
- Many further measurements

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QoS testing solution for Video Quality:

Send a video file from A-Side to B-Side. Perform Video Quality check by playing a video reference file from A-Side to B-Side and check the received video signals against the reference video signals using the standardised PEVQ algorithm.

One crucial result KPI is the objective 'mean opinion score' (MOS). The scale values can be interpreted from bad to excellent.

A-Side		B-Side
play	Video File	record

| Reference Video File | = | Recorded Video File |
| | | Reference Video File |

PEVQ
Algorithm

Available KPIs e.g.:
▶ MOS value
▶ delays
▶ brightness
▶ contrast
▶ distortion indicators
▶ ...

Impairment	Grade
Excellent	5
Good	4
Fair	3
Poor	2
Bad	1

Your benefits

▶ Automated testing: avoid time and money consuming manual tests

▶ Increase reliability of the GSM and UMTS networks → ARPU

▶ Increase customer satisfaction

▶ SQM: monitoring and measuring of service availability and quality → Ensuring SLAs with precise KPIs

▶ Scalable architecture: from stand alone to widely distributed systems

▶ Central SIM Multiplexing → No "SIM card traveling"

▶ Quick detection of problems due to parallel testing at any time