

Do you offer excellent Voice Quality?



Voice service is and will remain the key indicator for quality in a mobile network. This is recognised by subscribers and operators alike.

Not only the availability of the service such as answer ratios and dropped calls are of interest but also specifically the quality of the voice connections.

This is why SITE supports Voice Quality testing according to the PESQ algorithm recommended in the ITU-T P.862 standard. The common idea behind perceptual quality measures is to mimic the situation of a subjective test, where human beings would have to score the quality of sound samples in a listening laboratory environment.

SIGOS offers you a fully automated Voice Quality Test System!

Features

- Simulation of real subscriber behaviour
- Over the air testing
- Central SIM Card Multiplexer: infinite number of SIM cards can be managed
- Interfaces: GSM/GPRS U_m, UMTS U_u, VoIP, PSTN, ISDN S_o, GSM A, ISUP, LAN/WAN
- Customer specific audio reference files are easy to ingrate
- PESQ modules are installed on each Local Unit. Centralized solution is also possible
- Objective MOS Voice Quality result values from 1–5 (bad, poor, fair, good, excellent)
- Many further measurements



Test Case Example: Voice Quality

Call from A-Side to B-Side and perform speech quality check, by playing an audio reference file from A-Side to B-Side and check the received audio signal against the reference audio signal using the standardised PESQ algorithm.

One crucial result measurement is called 'mean opinion score' (MOS) and the values can be interpreted from bad to excellent.



Your benefits

- Automated testing: avoid time and money-consuming manual tests
- Increase reliability of the GSM network
- Increase customer satisfaction \rightarrow ARPU
- \blacktriangleright SQM: monitoring and measuring of service availability and quality \rightarrow Ensuring of KPIs and SLAs
- Scalable architecture: from stand alone to widely distributed systems
- ▶ Central SIM Multiplexing \rightarrow No "SIM card traveling"
- Quick detection of problems thanks to parallel testing at any time

This product description should be read in connection with the SIGOS SITE Test System brochure.