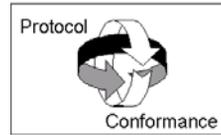## TELECOM CONFORMANCE TESTING / RELIABILITY

Conformance testing for the Common Channel Signaling System #7 and Voice over IP protocols

The presence of different system providers and the implementation of telecommunication interfaces give rise to the question as to how secure the interoperability of the individual protocol solutions actually is.
A declaration of conformance of the given protocol implementation to international ITU-T / ETSI test standards provides a guarantee that the various system components can work together without any restrictions.

Protocol
Conformance

Deutscher
Akkreditierungs
Rat
DAR
DAT-P-002/91-02

Our services are provided on the premises of the independent SN CTO CQE center in compliance with strictly objective criteria. The neutrality and independence of the center have been recognized by the Deutscher Akkreditierungs-Rat (DAR) [German Accreditation Council] and are fundamentally guaranteed by our company management.

As an accredited test laboratory for protocol conformance testing for the CCS#7 and VoIP protocols, we conduct conformance tests in compliance with following ITU-T and ETSI test standards:
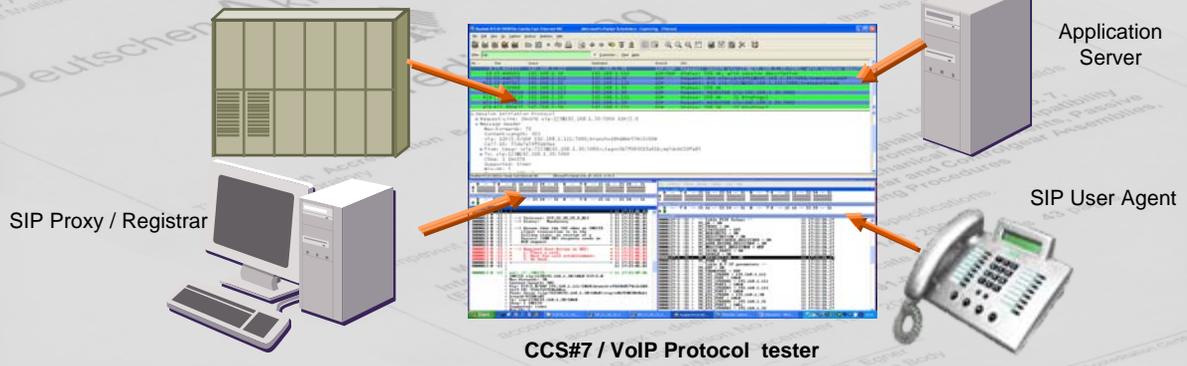
ITU-T Q.781/782	CCS#; Message Transfer Part; test specification level 2 / level 3
ITU-T Q.784	CCS#7; ISDN User Part; basic call test specification
ITU-T Q.786	CCS#7; Signalling Connection Control Part; test specification
ITU-T Q.788	CCS#7; UNI to UNI Compatibility Tests for ISDN, non-ISDN and undetermined accesses interworking over international ISDN User Part
ETSI TS 102 027	VoIP; Conformance Test Specification for IETF RFC 3261SIP – Session Initiation Protocol
ETSI TS 102 369	VoIP; SCTP – Stream Control Transmission Protocol; Test Suite Structure and Test Purposes
ETSI TS 102 381	VoIP; M3UA – SS7 MTP3 – User Adaptation Layer; Test Suite Structure and Test Purposes

We offer testing in compliance with ISO/IEC 9646 to include the following services:

- Test preparation using checklists (PICS, PIXIT)
- Provision of appropriate test instruments and tools
- Test implementation; Analysis and evaluation of the results obtained
- Production of test documentation in accordance with the terms of DIN EN IEC 17025

Conformity tests of the telco protocols assure interoperability of networks

CCS#7 node / Signalling Gateway

Application Server

SIP User Agent

SIP Proxy / Registrar

CCS#7 / VoIP Protocol tester

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