

Regulierungsbehörde für Telekommunikation und Post
(Reg TP)

represented in the

Deutschen Akkreditierungs Rat



Akkreditierung

This is to certify that the **Testing Laboratory (Headquarter)**

**7 layers AG
Borsigstr. 11
40880 Ratingen**

is competent under the terms of DIN EN 45 001 to carry out testing in the fields

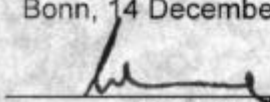
**Mobile Communications (GSM/DCS/PCS);
Short Range Devices (SRD), Low Power Devices (LPD),
Wideband Transmission Systems, Bluetooth,
Mobile Earth Stations (MESs), Digital Audio Broadcasting (DAB);
Electromagnetic Compatibility (EMC)**

according to the annexed list of standards and specifications.

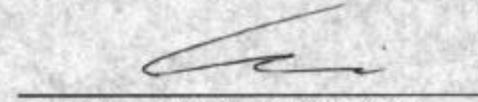
The annex is deemed part of this certificate and comprises 11 pages.

DAR-Registration number: TTI-P-G 178/99-10

Bonn, 14 December 1999


President




Head of the Accreditation Body

This accreditation has been awarded on the basis of an assessment and pursuant to the agreement concluded with the accreditation body with respect to the accreditation of a testing laboratory in accordance with the rules and procedures of the German Accreditation System, in conformity with the European standards DIN EN 45001, 45002 and 45003.

The requirements in terms of materials and personnel as specified in DIN EN 45001 for the specific tests indicated in the accreditation certificate, as well as for the procedures described in the annex to the accreditation certificate, have been met.

Details on the scope of the accreditation (test fields, procedures and specifications) are given in the annex to this accreditation certificate.

The annex and the documents submitted in connection with the accreditation are deemed to form an integral part of it. Any amendments are to be made in writing.

The accreditation is awarded subject to revocation at any time on the fundamental change or lapse of any conditions defined in the agreement and in the annex to this accreditation certificate.

Accreditation certificate and annex are not to be disseminated in any form other than the present one. The publication of extracts is subject to approval from the accreditation body.

The impression shall not be given that the inspection of the testing laboratory also extends to products and services of the certificate holder which are not covered by this accreditation. If such an impression is given, the accreditation body is entitled to demand that changes be made.

Anlage zur RegTP/DATEch/DEKITZ-Akkreditierungsurkunde TTI-P-G 178/99-10
(Annex to RegTP/DATEch/DEKITZ accreditation certificate TTI-P-G 178/99-10)
vom (dated) 14.12 1999 (December 14th, 1999)

Inhaber der Akkreditierungsurkunde:
(Holder of this accreditation certificate):

7 layers AG
Testlab / Prüflabor
Borsigstrasse 11
40880 Ratingen

- I) Der Geltungsbereich der Akkreditierung erstreckt sich auf die nachstehend genannten Gebiete und zugehörigen Prüfbereiche:

The scope of this accreditation indicates:

Prüfgebiet Area	Prüfbereich Section	Standards und Zulassungsvorschriften Standards and Approval Regulations
<i>Digital Cellular</i> <i>Telecommunications System</i>	Mobilfunk GSM / DCS / PCS <i>Mobile Communications</i> <i>GSM / DCS / PCS</i>	<i>See following listing</i>
<i>Radio Equipment and Systems</i>	Kurzbereichsgeräte; Funkanlagen kleiner Leistung; Breitband-Übertragungssysteme Bluetooth <i>Short range devices (SRD);</i> <i>Low power devices (LPD);</i> <i>Wideband Transmission Systems</i> <i>Bluetooth</i>	<i>See following listing</i>
<i>Satellite Personal Communications Networks</i> (S-PCN)	<i>Mobile Earth Stations (MESS)</i>	<i>See following listing</i>
<i>Radio Broadcast Systems</i>	Digital Audio Broadcasting (DAB)	<i>See following listing</i>
<i>Electromagnetic Compatibility (EMC)</i>	Grundnormen; Fachgrundnormen; Produktnormen; ETSI Produktnormen; Kraftfahrzeuge <i>Basic Standards;</i> <i>Generic Standars;</i> <i>Product Standards;</i> <i>ETSI Product Standards;</i> <i>Vehicle</i>	<i>See following listing</i>

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II) Titel der vorstehend genannten zugrundeliegenden Spezifikationen

Titles of the standards/specifications as mentioned before

Dokumentnummer <i>Document number</i>	Ausgabe <i>Issued</i>	Titel <i>Title</i>
Testarea: Digital Cellular Telecommunications System		
Testsection: Mobile Communications GSM / PCS / DCS (Mobile Stations)		
EN 301 419-1	current version	Attach Requirements Access (GSM 13.01)
EN 301 419-2	current version	HSCSD TBR module Access (GSM 13.34)
EN 301 419-3	current version	ASCI TBR module Access (GSM 13.68)
EN 301 419-4	current version	GPRS TBR module Access (GSM 13.60)
EN 301 419-5	current version	CTS-MS TBR module Access (GSM 13.56)
EN 301 419-6	current version	CTS-FP TBR module Access (GSM 13.55)
EN 301 419-7	current version	R-GSM TBR module Access (GSM 13.67)
EN 301 420	current version	Attach Requirements Telephony (GSM 13.02)
PCS 11.10	current version	Digital cellular telecommunications system Mobile Stations (MS) conformance specification; PCS 11.10 Part 1: Conformance specification (PCS 11.10-1 Edition 4 or higher)
TBR 19	Edition 5	European digital cellular telecommunications system (Phase 2); Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access
TBR 20	Edition 3	European digital cellular telecommunications system (Phase 2); Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Telephony
TBR 31	Edition 2	Digital cellular telecommunications system (Phase 2); Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access
TBR 32	Edition 2	Digital cellular telecommunications system (Phase 2); Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Telephony

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Testsection: Mobile Communications GSM / PCS / DCS (Base Stations and Repeaters)		
I-ETS 300 609-1	current version	Digital Cellular Telecommunications System (Phase 2); Base Station Systems (BSS) Equipment Specification; Part 1: Radio aspects (GSM 11.21)
ETS 300 609-4	current version	Digital Cellular Telecommunications System (Phase 2 and Phase 2+); Base Station Systems (BSS) Equipment Specification; Part 4: Repeaters (GSM 11.26)
EN 301 087	current version	Digital Cellular Telecommunications System (Phase 2 and Phase 2+); Base Station Systems (BSS) Equipment Specification; Part 1: Radio aspects (GSM 11.21)
BAPT 222 ZV 5	Juni 1994	Zulassungsvorschrift für Repeater in den Funknetzen D
BAPT 222 ZV 6	August 1993	Zulassungsvorschrift für die Funkschnittstelle von Basisstationen in den Funknetzen D und E
BAPT 222 ZV 10	Juli 1994	Zulassungsvorschrift für Repeater in den Funknetzen E
BAPT 222 ZV 13	April 1996	Zulassungsvorschrift für die Funkschnittstelle von Basisstationen der Phase 2 in den Funknetzen D und E
BAPT 222 ZV 15	April 1997	Zulassungsvorschrift für Repeater in den Funknetzen D und E
RegTP 324 ZV 17	Februar 1998	Zulassungsvorschrift für die Funkschnittstelle von Basisstationen in GSM 900 Mobilfunknetzen des Bahnbetriebsmobilfunkdienstes (R-GSM)
RegTP 324 ZV 18	Februar 1998	Zulassungsvorschrift für Repeater der Phase 2 und 2+ in GSM 900 und DCS 1800 Mobilfunknetzen

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Testarea: Radio Equipment and Systems		
Testsection: Short Range Devices		
I-ETS 300 220	1993 - 10	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Technical characteristics and test methods for radio equipment in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW
EN 300 220-1	V1.2.1 (1997-11)	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Technical characteristics and test methods for radio equipment in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Parameters intended for regulatory purposes
EN 300 220-2	V1.2.1 (1997-11)	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Technical characteristics and test methods for radio equipment in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Supplementary parameters not intended for regulatory purposes
I-ETS 300 330	1994 - 12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Technical characteristics and test methods for radio equipment in the frequency range 9 kHz to 30 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz
I-ETS 300 330 A1	1997- 01	AMENDMENT: Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Technical characteristics and test methods for radio equipment in the frequency range 9 kHz to 30 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz
EN 300 330	V1.2.2 (1999-05)	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Technical characteristics and test methods for radio equipment in the frequency range 9 kHz to 30 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz
I-ETS 300 440	1995 - 12	Electromagnetic Compatibility and Radio spectrum Matters (ERM); Short range devices; Technical characteristics and test methods for radio equipment to be used in the 1 GHz to 40 GHz frequency range
I-ETS 300 440 C1	1996 - 04	CORRIGENDUM: Electromagnetic Compatibility and Radio spectrum Matters (ERM); Short range devices; Technical characteristics and test methods for radio equipment to be used in the 1 GHz to 40 GHz frequency range
EN 300 440	V1.2.1 (1999-04) Draft	Electromagnetic Compatibility and Radio spectrum Matters (ERM); Short range devices; Technical characteristics and test methods for radio equipment to be used in the 1 GHz to 40 GHz frequency range

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ETSI EN 301 357	V1.1.1 (1999-07)	Electromagnetic Compatibility and Radio spectrum Matters (ERM); Technical characteristics and test methods for analogue cordless wideband audio devices using integral antennas operating in the CEPT recommended 863 MHz to 865 MHz frequency range
BAPT 222 ZV 122	Stand: 03.97	Zulassungsvorschrift für induktive Funkanwendungen für nichtöffentliche Funkanwendungen
BAPT 222 ZV 124	Stand: 04.97	Zulassungsvorschrift für Fernwirk-Funkanlagen für gewerbliche und industrielle Zwecke des nichtöffentlichen mobilen Landfunks (nömL)
BAPT 222 ZV 125	Stand: 11.96	Zulassungsvorschrift für Funkanlagen geringer Leistung für nichtöffentliche Funkanwendungen in ISM-Frequenzbereichen
BAPT 222 ZV 129	Stand: 10.97	Zulassungsvorschrift für Funkanlagen zur Fernsteuerung von Modellen
RegTP 321 ZV 003	Stand: 06.99	Zulassungsvorschrift für Funk-Bewegungsmelder kleiner Leistung
RegTP 324 ZV 130	Stand: 05.99	Zulassungsvorschrift für drahtlose Audio Anwendungen
RegTP 324 ZV 131	Stand: 02.99	Zulassungsvorschrift für Fernwirkfunkanwendungen des nichtöffentlichen mobilen Landfunks (nömL) im Frequenzbereich 868-870 MHz
Testsection: Wideband Transmission Systems		
ETS 300 328	Nov. 1996 Second Edition	Radio Equipment and Systems (RES); Wideband transmission systems; Technical characteristics and test conditions for data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques
ETS 300 328 A1	July 1997	This ammendment A1 modifies the European Telecommunication Standard ETS 300328 (1996) Radio Equipment and Systems (RES); Wideband transmission systems; Technical characteristics and test conditions for data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques
BAPT 222 ZV 126	Stand: 06.97	Zulassungsvorschrift für Funkanlagen für Breitband-Datenübertragung im Frequenzbereich 2400 - 2483,5 MHz innerhalb der Grenzen eines Grundstückes
Testsection: Bluetooth		
Bluetooth core	Version 1.0a 26.07.99	Specification of the Bluetooth System Part A: Radio Specification Part B: Baseband Specification

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Testarea: Satellite Personal Communications Networks (S-PCN)		
Testsection: Mobile Earth Station (MESS)		
TBR 41	Feb. 1998	Satellite Personal Communications Networks (S-PCN); Mobile Earth Stations (MESS), including handheld earth stations, for S-PCN in the 1.6/2,4 GHz bands under the Mobile Satellite Service (MSS); Technical essential requirements
TBR 42	Feb. 1998	Satellite Personal Communications Networks (S-PCN); Mobile Earth Stations (MESS), including handheld earth stations, for S-PCN in the 2,0 GHz bands under the Mobile Satellite Service (MSS); Technical essential requirements
Testarea: Radio Broadcast Systems		
Testsection: Digital Audio Broadcasting (DAB)		
BAPT 213 ZV 04	Ausgabe: 12.96	Zulassungsvorschrift für T-DAB-Sender
RegTP 323 ZV 008	Ausgabe: 09.98	Zulassungsvorschrift für blockselektive T-DAB-Repeater

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Document number	Issued	Title	
Testarea: Electromagnetic Compatibility			
Testsection: Basic Standards			
German	Europe	International	
DIN EN 61000-3-2 09/1995	EN 61000-3-2 1995 Apr. + A13 1997 July	IEC 1000-3-2, 1995	EMC Part 3: Limits (s.a. EN 61000-3-1) Section 2: Limits for harmonic current emissions (equipment input ≤ 16 A per phase)
DIN EN 61000-3-3 03/1996	EN 61000-3-3 1995 Jan.	IEC 1000-3-3	EMC Part 3: Limits (s.a. EN 61000-3-1) Section 3: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16A
DIN EN 61000-4-11 04/1995	EN 61000-4-11 1994 Aug.	IEC 1000-4-11, 1994	EMC Part 4: Testing and measurement techniques Section 11: Voltage dips, short interruptions and voltage variations immunity tests
DIN EN 61000-4-2 03/1996 A1 10/1998	EN 61000-4-2 1995 Mar. A1 1998 Apr.	IEC 1000-4-2, 1995	EMC Part 4: Testing and measurement techniques Section 2: Electrostatic discharge immunity test Basic EMC publication
DIN EN 61000-4-3 08/1997	EN 61000-4-3 1995-02, 1 st Edit. 1996 Sept. Modified A1 1998 Aug.	IEC 1000-4-3, 1995	EMC Part 4: Testing and measurement techniques Section 3:Radiated, radio-frequency, electromagnetic field immunity test
DIN EN 61000-4-4 03/1996	EN 61000-4-4 1995 Mar.	IEC 1000-4-4, 1995	EMC Part 4: Testing and measurement techniques Section 4: Electrical fast transient/burst immunity test (Basic EMC publication)
DIN EN 61000-4-5 09/1996	EN 61000-4-5 1995 Mar.	IEC 1000-4-5, 1995	EMC Part 4: Testing and measurement techniques Section 5: Surge immunity test
DIN EN 61000-4-6 04/1997	EN 61000-4-6 1996 July	IEC 1000-4-6, 1996	EMC Part 4: Testing and measurement techniques Section 6: Immunity to conducted disturbances, induced by radio-frequency fields
DIN EN 61000-4-8 05/1994	EN 61000-4-8 1993 Sept.	IEC 1000-4-8, 1993	EMC Part 4: Testing and measurement techniques Section 8: Power frequency magnetic field immunity test - Basic EMC Publication
DIN EN 61000-4-9 05/1994	EN 61000-4-9 1993 Sept.	IEC 1000-4-9, 1993	EMC Part 4: Testing and measurement techniques Section 9: Pulse magnetic field immunity test Basic EMC Publication
Testsection: Generic Standards			
DIN EN 50081-1 03/1993	EN 50081-1 1992 Jan.	IEC 1000-6-3, 1996	Electromagnetic compatibility – Generic emission standard Part 1: Residential, commercial and light industry
DIN EN 50081-2 03/1994	EN 50081-2 1993 Aug.		Electromagnetic compatibility – Generic emission standard Part 2: Industrial environment
DIN EN 50082-1 11/1997	EN 50082-1 1997 Aug.	IEC 1000-6-1 DIS	Electromagnetic compatibility – Generic immunity standard Part 1: Residential, commercial and light industry

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DIN EN 50082-2 02/1996	EN 50082-2 1995 Mar.	IEC 1000-6-2 CDV	Electromagnetic compatibility – Generic immunity standard Part 2: Industrial environment
Testsection: Product Standards			
DIN EN 50130-4 11/1996	EN 50130-4 1995 Nov.		Alarm Systems - Part 4: Electromagnetic Compatibility Product family standard: Immunity requirements for components of fire, intruder and social alarm systems
DIN EN 50130-4/A1 10/1998	EN 50130-4/A1 1998 Apr.		Alarm Systems - Part 4: Electromagnetic Compatibility Product family standard: Immunity requirements for components of fire, intruder and social alarm systems
DIN V ENV 50140 08/1993	ENV 50140 02/1993		Electromagnetic Compatibility Radiated, radio-frequency, electromagnetic field immunity test
DIN V ENV 50141 04/1996	ENV 50141 1993		Electromagnetic Compatibility Immunity to conducted disturbances, induced by radio- frequency fields
DIN V ENV 50204 02/1996	ENV 50204 1995 Mar		Radiated electromagnetic field from digital radio telephones Immunity test
DIN EN 55011 12/1998	EN 55011 1998 May	CISPR 11, 1997	Industrial, scientific and medical (ISM) radio-frequency equipment Radio disturbance characteristics - Limits and methods of measurement
DIN EN 55014 12/1993	EN 55014 1990	CISPR 14: 1993	Limits and methods of measurement of radio disturbance characteristics of electrical motor-operated and thermal appliances for household and similar purposes, electric tools and similar electric apparatus
DIN EN 55014-1 09/1997	EN 55014-1 02/1997	CISPR 14-1: 1993/ A2:1998	Electromagnetic Compatibility Requirements for household appliances, electric tools and similar electric apparatus Part 1: Emission - Product family standard
DIN EN 55014-2 1997	EN 55014-2 1999	CISPR 14-2: 1997	Electromagnetic Compatibility Requirements for household appliances, electric tools and similar electric apparatus Part 2: Immunity - Product family standard
DIN EN 55022 04/1998	EN 55022 1998 Sep.	CISPR 22: 1996	Information technology equipment – Radio disturbance characteristics Limits and methods of measurement
DIN EN 55024	EN 55024 1998 Sep.	IEC/CISPR 24: 1997	Information technology equipment - Immunity characteristics Limits and methods of measurement
DIN VDE 0838-2 06/1987	EN 60555-2:1987	IEC 60555-2:1982 + A1:1985 (Modified)	Disturbances in supply systems caused by household appliances and similar electrical equipment Part 2: Harmonics
DIN VDE 0838-3 06/1987	EN 60555-3:1987 Amendment A1:1991 to EN 60555-3:1987	IEC 60555-3:1982 IEC 60555-3:1982 /A1:1990	Disturbances in supply systems caused by household appliances and similar electrical equipment - Part 3: Voltage fluctuations

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DIN EN 60601-1-2, 09/1994	EN 60601-1-2, 1993	IEC 601-1-2: 1993	Medical electrical equipment: Part 1: General requirements for safety - 2. Collateral standard: Electromagnetic Compatibility - Requirements and tests
Testsection: ETSI Product Standards			
	EN 300 279 V1.2.1 1999-02		Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for Private land Mobile Radio (PMR) and ancillary equipment (speech and/or non-speech)
	ETS 300 329 1997 June Second Edition		Radio Equipment and Systems (RES); Electromagnetic Compatibility (EMC) for Digital Enhanced Cordless Telecommunications (DECT) equipment
	EN 300 339 V1.1.1 (1998-06)		Electromagnetical Compatibility and Radio spectrum Matters (ERM); General ElectroMagnetic Compatibility (EMC) for radio communication equipment
	ETS 300 342-1 1997 June Second Edition		Radio Equipment and Systems (RES); ElectroMagnetic Compatibility (EMC) for European digital cellular telecommunications system (GSM 900 MHz and DCS 1800 MHz) Part 1: Mobile and portable radio and ancillary equipment
	ETS 300 342-2 1994 Nov.		Radio Equipment and Systems (RES); ElectroMagnetic Compatibility (EMC) for European digital cellular telecommunications system (GSM 900 MHz and DCS 1800 MHz) Part 2: Base station radio and ancillary equipment
	ETS 300 342-3-pr 1997 Oct.		Radio Equipment and Systems (RES); ElectroMagnetic Compatibility (EMC) for European digital cellular telecommunications system (GSM 900 MHz and DCS 1800 MHz) Part 3: Base station radio and ancillary equipment and repeaters meeting Phase 2 GSM requirements
	ETS 300 342-3-pr Final Draft 1999 June		Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro-Magnetic Compatibility (EMC) for European digital cellular telecommunications system (GSM 900 MHz and DCS 1800 MHz) Part 3: Base station radio and ancillary equipment and repeaters meeting Phase 2 GSM requirements
	EN 300 386 V1.2.1 (1998-11) Draft		Electromagnetic Compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements
	ETS 300 445 January 1996		Radio Equipment and Systems (RES) Electro-Magnetic Compatibility (EMC) standard for wireless microphones and similar Radio Frequency (RF) audio link equipment
	ETS 300 446, March 1997		Radio Equipment and Systems (RES); ElectroMagnetic Compatibility (EMC) standard for second generation Cordless Telephone (CT2) apparatus operating in the frequency band 864,1 MHz to 868,1 MHz, including public access services

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	ETS 300 682 June 1997		Radio Equipment and Systems (RES); ElectroMagnetic Compatibility (EMC) standard for On-Site Paging equipment
	ETS 300 683 June 1997		Radio Equipment and Systems (RES); ElectroMagnetic Compatibility (EMC) standard for Short Range Devices (SRD) operating on frequencies between 9 kHz and 25 GHz
	ETSI EN 300 683 V1.2.1 (1999-07) Draft		Radio Equipment and Systems (RES); ElectroMagnetic Compatibility (EMC) standard for Short Range Devices (SRD) operating on frequencies between 9 kHz and 25 GHz
	ETS 300 826 1997 Nov.		Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for 2,4 GHz wideband transmission systems and High Performance Radio Local Area Network (HIPERLAN) equipment
	EN 300 831, Draft V1.2.1 (1998-11)		Electromagnetical Compatibility and Radio spectrum Matters (ERM); General ElectroMagnetic Compatibility (EMC) for Mobile Earth Stations (MES) used within Satellite Personal Communications Networks (S-PCN) operating in the 1,5/1,6/2,4 GHz and 2 GHz frequency range
Testsection: Vehicle			
		ISO 7637-0 1990-08-15, 1 st Edit.	Road vehicles – Electrical disturbance by conduction and coupling (Part 0): Definitions and general
		ISO 7637-1 1990-06-01, 1 st Edit.	Passenger cars and light commercial vehicles with nominal 12 V supply voltage –Electrical transient conduction along supply lines only (s.a. ISO 7637, Part 0)
		ISO 7637-2 1990-06-01, 1 st Edit.	Commercial vehicles with nominal 24 V supply voltage – Electrical transient conduction along supply lines only (s.a. ISO 7637, Part 0)
		ISO 7637-3 1995-07-15	Vehicles with nominal 12 V or 24 V supply voltage – Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines (s.a. ISO 7637, Part 0)
DIN 40839-1 10/1992			Elektromagnetische Verträglichkeit (EMV) in Straßenfahrzeugen; Leitungsgeführte impulsförmige Störgrößen auf Versorgungsleitungen in 12-V- und 24-V- Bordnetzen.

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Für die fachliche Richtigkeit der Prüfberichte verantwortlich:
 (Technical responsibility for the test reports:)

Prüfgebiet oder Prüfbereich <i>Testarea or Testsection</i>	Verantwortlicher <i>Responsibility</i>	Stellvertreter <i>Deputy</i>
Mobilfunk GSM / DCS / PCS (Mobilstationen) <i>Mobile Communications GSM / DCS / PCS (Mobile Stations)</i>	Herr (Mr) Thomas Jäger	Herr (Mr) Henning Harmjanz
Mobilfunk GSM / DCS / PCS (Basistationen und Repeater) <i>Mobile Communications GSM / DCS / PCS (Base Stations and Repeaters)</i>	Herr (Mr) Michael Küppers	Herr (Mr) Marco Kullik
Kurzbereichsgeräte; Funkanlagen kleiner Leistung, Mobile Erdstationen; Breitband-Übertragungssysteme; Digital Audio Broadcasting (DAB); Bluetooth <i>Short Range Devices (SRD); Low Power Devices (LPD); Mobile Earth Station (MESs), Wideband Transmission Systems; Digital Audio Broadcasting (DAB); Bluetooth</i>	Herr (Mr) Bernhard Retka	Herr (Mr) Marco Kullik
Elektromagnetische Verträglichkeit <i>Electromagnetic Compatibility (EMC)</i>	Herr (Mr) Bernhard Retka	Herr (Mr) Arndt Stöcker