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# IMPORTANT

## Information

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9. All submissions and re-submissions that miss the cut-off will be rejected to the customer to be submitted with a new publication date.
10. Information on forms will be taken as the primary source of the notice to be published. Any instructions that are on the email body or covering letter that contradicts the notice form content will be ignored.

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Furthermore, the fax number **012- 748 6030** will also be **discontinued** from this date and customers will only be able to submit notice requests through the email address [submit.egazette@gpw.gov.za](mailto:submit.egazette@gpw.gov.za).

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For any information, please contact the eGazette Contact Centre on 012-748 6200 or email [info.egazette@gpw.gov.za](mailto:info.egazette@gpw.gov.za)

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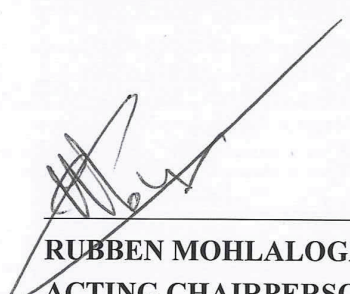
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**GENERAL NOTICES • ALGEMENE KENNISGEWINGS**

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**INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA****NOTICE 896 OF 2015****INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA (ICASA)****NOTICE OF PUBLICATION: REVISED OFFICIAL LIST OF REGULATED STANDARDS FOR  
TECHNICAL EQUIPMENT AND ELECTRONIC COMMUNICATIONS EQUIPMENT  
REGULATIONS**

The Independent Communications Authority of South Africa (herein after referred to as “Authority”) hereby issue a notice of regulations made in the schedule by the Authority in terms of section 4(1) of ICASA Act No.13 of 2000 read with section 36(1) of the Electronic Communications Act No. 36 of 2005 (“the Act”).



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**RUBBEN MOHLALOGA**  
**ACTING CHAIRPERSON**  
**ICASA**

## SCHEDULE

### 1. DEFINITIONS

In these regulations, unless the context indicates otherwise, a word or expression to which a meaning has been assigned in the Act has the meaning so assigned.

**“Basic EMC Standard”** means a minimum standard, which defines and describes the Electromagnetic Compatibility (EMC) of any equipment, the measurement thereof, and the appropriate test methods and limits;

**“CISPR”** means International Special Committee on Radio Interference;

**“Disturbance”** means any electromagnetic phenomenon, which may degrade the performance of a device, equipment or system;

**“Domestic Sites”** means an environment or area declared as a domestic environment according to the bylaws of the local municipality;

**“Electromagnetic Compatibility (EMC)”** means a measure of the performance of any item of equipment, in respect of its ability to operate correctly in a given electromagnetic environment, without affecting, or being adversely affected by, that environment;

**“Electronic communications equipment (ECE)”** means equipment connected to and used within a electronic communications network, including ECTE, and may be powered by the electronic communications network;

**“Electronic communications terminal equipment (ECTE)”** means equipment (or a significant part of equipment), which enables communication, and which is intended to be utilised as end-user or Service Provider equipment connected, directly or indirectly, by any means, to interface with electronic communications networks.

“**Emission**” means the outward flow of energy from any source in the form of electromagnetic waves propagated in space or conductors, with or without an artificial guide;

“**Equipment**” means any apparatus, device or system, which is powered by means of electrical AC and/or DC energy, the source being internal or external;

“**ETSI**” means European Telecommunications Standards Institute;

“**Generic EMC Standard**” means a standard, which relates to a particular electromagnetic environment, and specifies an appropriate series of requirements and tests, which are used for all equipment, placed into that environment;

“**ICASA Act**” means the Independent Communications Authority of South Africa, 2000 (Act No. 13 of 2000);

“**IEC**” means International Electrotechnical Commission;

“**Immunity**” means the ability of any equipment or system to operate correctly, in the presence of an electromagnetic disturbance;

“**Industrial Sites**” means environment or area declared as an industrial environment according to the bylaws of the local municipality;

“**Information Technology Equipment (ITE)**” means any equipment, which has a primary function of any one, or more in combination, of the following: entry, storage, display, retrieval, transmission, receiving, processing, switching, and control of data and/or of telecommunication messages and/or signalling, digital and / or analogue. ITE equipment may be equipped with one or more terminal ports, typically operated for information transfer or processing. It excludes radio equipment (or any part of the ITE equipment which can be classified as radio equipment), unless it incorporates IT equipment for any part of its function;

“**ITU**” means International Telecommunications Union;

**“Product-Family EMC Standard”** means a standard, which contains special limits for emission and immunity for a specific category of equipment. It contains specific instructions on how the measurements must be carried out, as well as how the device under test should perform and be operated;

**“Product-Specific EMC Standard”** means a standard, which contains special limits for emission and immunity for a specific product or product line of equipment. It contains specific instructions on how the measurements must be carried out, as well as how the device under test should perform and be operated;

**“Radio equipment”** means equipment or related component which includes one or more transmitters and/or receivers and/or parts thereof, which has a primary function of radio transmission and/or reception of radio waves, utilising the frequency spectrum allocated to celestial/terrestrial/space radio communications. This type of equipment may be used in a fixed, mobile or portable application;

**“SANS”** means South African National Standards;

## 2. PURPOSE OF THE REGULATIONS

- (1) The purpose of these Regulations is to prescribe national standards for the performance and operation of equipment and electronic communications facilities, including radio equipment, in order to:
- (a) regulate Electromagnetic Compatibility (EMC) for all types of electrical and electronic equipment, electronic communication equipment or facilities, including radio equipment, to limit interference to electronic communications equipment facilities;
  - (b) ensure the proper functioning, interoperability and interconnection of any connected electronic communications equipment, electronic communications facilities, and radio equipment;
  - (c) regulate performance and operations of all radio equipment, including subscriber equipment, in order to limit interference to electronic communications equipment and facilities;
  - (d) regulate safety aspects of electronic communications equipment or facilities;
  - (e) harmonize the applicable standards;
  - (f) specify the mandatory standards to be used by the Authority for Type Approval of electronic communications equipment or electronic communications facilities, including radio equipment;
  - (g) specify the mandatory Electromagnetic Compatibility (EMC) standards to which all electrical and electronic equipment must comply.



### **3. SCOPE OF THESE REGULATIONS**

These Regulations must be applied to all electronic communications equipment and facilities, including radio equipment.

### **4. ELECTROMAGNETIC COMPATABILITY STANDARDS (EMC)**

- (1) In the event that no reference is made to the installation type, or if the equipment may be installed in Domestic or Industrial sites, the Domestic levels must apply;
- (2) When testing for compliance with the relevant emission standards, the test equipment must comply with SANS 216 (CISPR 16) as prescribed in these Regulations. When testing for compliance with the relevant immunity standards, the test equipment must comply with the relevant standard as prescribed in these Regulations;
- (3) Product specific EMC standards will take precedence over Product-family EMC standards. Product-family standards will take precedence over Generic standards.

### **5. APPLICATION OF THESE REGULATIONS**

- (1) All equipment for which a valid ICASA Type Approval Certificate was issued prior to the promulgation of these Regulations will be considered as being issued pursuant to these Regulations;
- (2) Unless otherwise specified in these Regulations, all Type Approval Certificates issued in terms of a previous standard remain valid;
- (3) In the event that there exist inconsistencies with the frequency ranges as detailed in an applicable standard, to that extent, the applicable frequency plan shall prevail.

**6. CONSEQUENTIAL AMENDMENTS TO EXISTING STANDARDS**

(1) All references made to other international standards or documents within standards listed in these Regulations will only apply in so far as it is not in conflict with the Act or any Regulation.

**7. REPEAL**

(1) Regulations in respect of technical standards for electronic communication equipment, as published in the Government Gazette No. 32885, Notice 46 of 2010, is hereby repealed.

**8. SHORT TITLE AND COMMENCEMENT**

(1) THESE REGULATIONS WILL BE KNOWN AS THE OFFICIAL LIST OF REGULATED STANDARDS FOR TECHNICAL EQUIPMENT AND ELECTRONIC COMMUNICATIONS FACILITIES AND WILL COME INTO OPERATION ON PUBLICATION THEREOF IN THE GAZETTE.

**9. OFFENCES AND PENALTIES**

(1) A PERSON WHO CONTRAVENES THE PROVISIONS OF THESE REGULATIONS OR AN ORDER OR DETERMINATION MADE BY THE AUTHORITY IN TERMS THEREOF, IS GUILTY OF AN OFFENCE, AND IF CONVICTED, IS LIABLE TO A FINE NOT EXCEEDING ONE MILLION RANDS DURING THE PERIOD WITHIN WHICH THE CONTRAVENTION OCCURRED.

## 10. “OFFICIAL LIST OF ICASA REGULATED STANDARDS FOR TECHNICAL EQUIPMENT AND ELECTRONIC COMMUNICATIONS FACILITIES”

### 10.1 Electromagnetic Compatibility (EMC) Standards

#### 10.1.1 Basic EMC Standards

These EMC Standards specify the general conditions, methods of measurement and associated tests methods and limits.

Classification of Equipment	Applicable standard
Radio disturbance and immunity apparatus - Measuring apparatus	SANS 216-1-1 (CISPR 16-1-1 ed3.1)
Radio disturbance and immunity apparatus - Conducted disturbances	SANS 216-1-2 (CISPR 16-1-2 ed1.2)
Radio disturbance and immunity apparatus - Disturbance power	SANS 216-1-3 (CISPR 16-1-3 ed2)
Radio disturbance and immunity apparatus - Radiated disturbance	SANS 216-1-4 (CISPR 16-1-4 ed3)
Radio disturbance and immunity apparatus - Antenna calibration test sites for 30 MHz to 1000 MHz	SANS 216-1-5 (CISPR 16-1-5 ed1)
Method of measurement of disturbances and immunity - Conducted disturbance measurements	SANS 216-2-1 (CISPR 16-2-1 ed2)
Method of measurement of disturbances and immunity - Measurement of disturbance power	SANS 216-2-2 (CISPR 16-2-2 ed2)
Method of measurement of disturbances and immunity - Radiated disturbance measurements	SANS 216-2-3 (CISPR 16-2-3 ed3.1)
Method of measurement of disturbances and immunity - immunity measurements	SANS 216-2-4 (CISPR 16-2-4 ed1)
Limits for harmonic current emissions (equipment input current $\leq$ 16A per phase)	SANS 61000-3-2 (IEC 61000-3-2 ed3.2)
Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq$ 16 A per phase and not subject to conditional connection	SANS 61000-3-3 (IEC 61000-3-3 Ed2)
Limits - Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A	SANS 61000-3-4 (IEC 61000-3-4 ed1)
Limits – Limitations and flicker in low-voltage power supply systems for equipment with rated current greater than 16A	SANS 61000-3-5 (IEC 61000-3-5 ed2)
Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems – equipment with rated current $\leq$ 75A and subject to conditional connection	SANS 61000-3-11 (IEC 61000-3-11 ed1)
Electrostatic discharge immunity test	SANS 61000-4-2 (IEC 61000-4-2 ed2)
Radiated, radio-frequency, electromagnetic field immunity test	SANS 61000-4-3 (IEC 61000-4-3 ed3.1)

Electrical fast transient/burst immunity test	SANS 61000-4-4 (IEC 61000-4-4 ed2.1)
Surge immunity test	SANS 61000-4-5 (IEC 61000-4-5 ed2)
Immunity to conducted disturbances, induced by radio-frequency fields	SANS 61000-4-6 (IEC 61000-4-6 ed3)
General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected	SANS 61000-4-7 (IEC 61000-4-7 ed2.1)
Power frequency magnetic field immunity test	SANS 61000-4-8 (IEC 61000-4-8 ed2)
Pulse magnetic field immunity test	SANS 61000-4-9 (IEC 61000-4-9 ed1.1)
Damped oscillatory magnetic field immunity test	SANS 61000-4-10 (IEC 61000-4-10 ed1.1)
Voltage dips, short interruptions and voltage variations immunity tests	SANS 61000-4-11 (IEC 61000-4-11 ed1)
Oscillatory waves immunity test	SANS 61000-4-12 (IEC 61000-4-12 ed2)
Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	SANS 61000-4-13 (IEC 61000-4-13 ed1.1)
Voltage fluctuation immunity test	SANS 61000-4-14 (IEC 61000-4-14 ed1.2)
Test for disturbances in the frequency range 0 Hz to 150 kHz	SANS 61000-4-16 (IEC 61000-4-16 ed1.2)
Ripple on d.c. input power port immunity test	SANS 61000-4-17 (IEC 61000-4-17 ed1.2)
Emission and immunity testing in transverse electromagnetic (TEM) waveguides	SANS 61000-4-20 (IEC 61000-4-20 ed2)
Unbalance, immunity test	SANS 61000-4-27 (IEC 61000-4-27 ed1.1)
Variation of power frequency, immunity test	SANS 61000-4-28 (IEC 61000-4-28 ed1.2)
Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	SANS 61000-4-29 (IEC 61000-4-29 ed1)
Power quality measurement methods	SANS 61000-4-30 (IEC 61000-4-30 ed2)
Power supply interface at the input to telecommunication equipment Part 1: Operated by alternating (ac) derived from direct current (dc) sources	SANS 300132-1 (ETS300132-1 V1)

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Power supply interface at the input to telecommunication equipment Part 2: Operated by direct current (dc)	SANS 300132-2 (ETS300132-2 V2.1.2)
Power supply interface at the input to telecommunication equipment Part 3: Operated by rectified current source, alternating current source or direct current source up to 400 V	SANS 300132-3 (ETS300132-3 V1.2.1)

**10.1.2 Generic Standards (Applicable to all equipment not specified below)**

Classification of equipment	Emissions standard	Immunity standard
Residential, Commercial and Light-industrial products	SANS 61000-6-3 (IEC 61000-6-3 ed2)	SANS 61000-6-1 (IEC 61000-6-1 ed2.1)
Industrial environments	SANS 61000-6-4 (IEC 61000-6-4 ed2)	SANS 61000-6-2 (IEC 61000-6-4 ed2.1)

**10.1.3. Product/Product Family EMC Standards**

Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Customer Premises Equipment (CPE)	SANS 222 (CISPR 22:2005 with amendments)	SANS 222 (CISPR 22:1997 with amendments)	Immediate
Equipment connected to a Network Terminal Point.	SANS 22:2008 (CISPR 22:2008)	SANS 222 (CISPR 22:1998 with amendments)	2015-12-31
	SANS224 (CISPR 24:1998 Ed 1 with amendments)		
	SANS224 (CISPR 24:2010)	SANS224 (CISPR 24:1998 Ed 1 with amendments)	2015-12-31
Physical large telecommunication systems	SANS 300127 (EN 300127 V1.2.1)	None	
<ul style="list-style-type: none"> <li>▪ Radiated emission measurement procedure for physically large systems used within the telecommunication network, with the exception of radio equipment</li> </ul>			

Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Equipment intended to be used within a telecommunications network <ul style="list-style-type: none"> <li>▪ Switching equipment</li> <li>▪ Non-radio transmission and ancillary equipment               <ul style="list-style-type: none"> <li>○ Multiplexers</li> <li>○ Line equipment and repeaters                   <ul style="list-style-type: none"> <li>– Synchronous Digital Hierarchy (SDH)</li> <li>– Plesiochronous Digital Hierarchy (PDH)</li> <li>– Asynchronous Transfer Mode (ATM)</li> <li>– Digital Cross Connect Systems</li> <li>– Network terminations</li> <li>– Transmission equipment used in the access network like xDSL</li> </ul> </li> </ul> </li> <li>▪ Power supply equipment               <ul style="list-style-type: none"> <li>○ Central power plant</li> <li>○ End of suite power supplies</li> <li>○ Uninterruptible power supplies (UPS)</li> <li>○ Stabilized AC power supplies</li> <li>○ Other dedicated telecommunication network power supplies, but exclude equipment which is uniquely associated with or integrated in other equipment</li> </ul> </li> <li>▪ Supervisory equipment               <ul style="list-style-type: none"> <li>○ Network management equipment</li> <li>○ Operator access maintenance equipment</li> <li>○ Traffic measurement systems</li> <li>○ Line test units</li> <li>○ Functional test units</li> </ul> </li> </ul>	SANS 300386 (EN 300386 V1.3.3)	None	
	SANS 300386 (EN 300386 V1.4.1)	SANS 300386 (EN 300386 V1.3.3)	2015-12-31
	SANS 300386 (EN 300386 V1.5.1)	SANS 300386 (EN 300386 V1.4.1)	2015-12-31

Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Radio communication equipment and services	SANS 301489-1 (EN 301489-1 V1.6.1)	None	
	SANS 301489-1 (EN 301489-1 V1.8.1)	SANS 301489-1 (EN 301489-1 V1.6.1)	Immediate
	SANS 301489-1 (EN 301489-1 V1.9.2)	SANS 301489-1 (EN 301489-1 V1.8.1)	2015-12-31
<b>Radio Paging Equipment</b>			
<ul style="list-style-type: none"> <li>▪ Covers the assessment of paging equipment (receivers, transmitters and combined equipment) and ancillary equipment</li> </ul>	SANS 301489-2 (EN 301489-2 V1.3.1)	None	
<b>Short-Range Devices (SRD) – 9 kHz to 40 GHz</b>			
<ul style="list-style-type: none"> <li>▪ Short Range Devices (SRD) with RF power levels ranging up to 500 mW and intended for operation in the frequency range 25 MHz to 1000 MHz</li> <li>▪ Short Range Devices (SRD) intended for operation in the frequency range 9 kHz to 25 MHz and inductive loop systems intended for operation in the frequency range 9 kHz to 30 MHz</li> <li>▪ Short Range Devices (SRD) intended for operation in the frequency range 1 GHz to 40 GHz</li> </ul>	SANS 301489-3 (EN 301489-3 V1.4.1)	None	



Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Fixed radio links and ancillary equipment			
<ul style="list-style-type: none"> <li>▪ Point-to-point equipment; <ul style="list-style-type: none"> <li>○ Intended for operation in the 1.4 GHz frequency band</li> <li>○ Intended for operation in the 2.1 to 2.6 GHz frequency band</li> <li>○ Intended for operation in the 3 to 11 GHz frequency band</li> <li>○ Intended for operation in the 13 to 18 GHz frequency band</li> <li>○ Intended for operation in the 23 GHz frequency band</li> <li>○ Intended for operation in the 26 to 28 GHz frequency band</li> <li>○ Intended for operation in the 32 to 38 GHz frequency band</li> <li>○ Intended for operation in the 50 GHz frequency band</li> <li>○ Intended for operation in the 52 GHz frequency band</li> <li>○ Intended for operation in the 55 GHz frequency band</li> <li>○ Intended for operation in the 58 GHz frequency band</li> <li>○ With packet data interface intended for operation in the 7 to 55 GHz frequency band</li> </ul> </li> <li>▪ Point-to-Multipoint; <ul style="list-style-type: none"> <li>○ Intended for operation in the frequency band below 1 GHz</li> <li>○ Intended for operation in the 1 to 3 GHz frequency band</li> <li>○ Intended for operation in the 3 to 11 GHz frequency band</li> <li>○ Intended for operation in the 11 to 62 GHz frequency band</li> <li>○ Intended for operation in the 26 to 28 GHz frequency band</li> </ul> </li> </ul>	<p>SANS 301489-4 (EN 301489-4 V1.3.1)</p> <p>SANS 301489-4 (EN 301489-4 V1.4.1)</p>	<p>SANS 301489-4 (EN 301489-4 V1.3.1)</p>	2015-12-31
Private land mobile radio	SANS 301 489-5	None	

<ul style="list-style-type: none"> <li>▪ Non-integral antenna PMR equipment (frequencies between 30 MHz and 1000 MHz with channel separations of 12.5, 20 and 25 kHz)</li> <li>▪ Integral antenna PMR equipment (frequencies between 30 MHz and 1000 MHz with channel separations of 12.5, 20 and 25 kHz)</li> <li>▪ Narrowband channel non-integral PMR equipment (frequencies between 30 MHz and 3 GHz with narrow channel separations less than 10 kHz)</li> </ul>			
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Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
DECT	SANS 301489-6 (EN 301489-6 V1.2.1)	None	
<ul style="list-style-type: none"> <li>▪ Digital Enhanced Cordless Telecommunications (DECT) equipment</li> </ul>	SANS 301489-6 EN 301489-6 V1.3.1	SANS 301489-6 (EN 301489-6 V1.2.1)	2015-12-31
GSM and DCS	SANS 301489-7 (EN 301489-7 V1.3.1)	SANS 301489-7 (EN 301489-7 V1.2.1)	Immediate
<ul style="list-style-type: none"> <li>▪ Mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS) <ul style="list-style-type: none"> <li>○ Mobile and portable radio equipment and ancillary equipment meeting Phase 1, Phase 2, and Phase 2+ requirements of GSM 450 MHz, 900 MHz or DCS 1800 MHz digital cellular telecommunications systems</li> </ul> </li> </ul>			
<ul style="list-style-type: none"> <li>▪ Specific conditions for GSM base stations <ul style="list-style-type: none"> <li>○ GSM base station, ancillary RF amplifiers and GSM repeaters meeting Phase 2 and 2+</li> <li>○ Other types of GSM base station, ancillary RF amplifiers and GSM repeaters</li> </ul> </li> </ul>	SANS 301 489-8 (EN 301489-8 V1.2.1)	None	
<b>Terrestrial sound broadcasting service transmitters</b>	SANS 301 489-11 (EN 301 489-11 V1.3.1)	SANS301489-11	2015-12-31

<ul style="list-style-type: none"> <li>▪ AM sound broadcasting transmitters</li> <li>▪ FM sound broadcasting transmitters</li> <li>▪ DRM sound broadcasting transmitters</li> <li>▪ T-DAB sound broadcasting transmitters</li> </ul>			
Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Very Small Aperture Terminal, Satellite Interactive Earth Station operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)			
<ul style="list-style-type: none"> <li>▪ Transmit only and transmit and receive Ku band VSATs</li> <li>▪ Receive-only Ku band VSATs</li> <li>▪ Transmit only and transmit and receive C band VSATs</li> <li>▪ Receive-only C band VSATs</li> <li>▪ Satellite News Gathering (SNG) Ku band Transportable Earth Station (TESs)</li> <li>▪ Satellite Interactive Terminals (SITs)</li> <li>▪ Satellite User Terminals (SUTs) transmitting in the frequency range 29.5 GHz to 30.0 GHz</li> <li>▪ Satellite User Terminals (SUTs) transmitting in the frequency range 27.5 GHz to 29.5 GHz</li> </ul>	<p>SANS 301489-12 (EN 301489-12 V1.2.1)</p> <p>SANS 301489-12 (EN 301489-12 V2.2.2)</p>	<p>SANS 301489-12 (EN 301489-12 V1.2.1)</p>	<p>2015-12-31</p>

Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Analogue and digital terrestrial TV broadcasting service transmitters	SANS 301489-14 (EN 301489-14 V1.2.1)	None	
Commercially available amateur radio equipment			
<ul style="list-style-type: none"> <li>▪ Amateur radio equipment</li> </ul>	SANS 301489-15 (EN 301489-15 V1.2.1)	None	
2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment	SANS 301 489-17 (EN 301489-17 V1.3.2)	None	
<ul style="list-style-type: none"> <li>▪ Wideband transmission systems operating in the 2,4 GHz ISM band using spread spectrum techniques</li> <li>▪ High Performance Radio Local Area Networks (HIPERLAN) type 1 operating in the 5 GHz frequency band</li> </ul>	SANS 301 489-17 (EN 301489-17 V2.1.1)	SANS 301 489-17 (EN 301489-17 V1.3.2)	2015-12-31

Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Terrestrial Trunked Radio (TETRA)	SANS 301 489-18 (EN 301489-18 V1.3.1)	None	
<ul style="list-style-type: none"> <li>▪ Mobile, base station, and portable equipment of Terrestrial Trunked Radio (TETRA) equipment</li> </ul>			
Receive Only Mobile Earth Stations (ROMES) operating in the 1.5 GHz band providing data communications	SANS 301489-19 (EN301489-19 V1.2.1)	None	
<ul style="list-style-type: none"> <li>▪ ROMES which operate in the Land Mobile Satellite Service (LMSS) space to earth bands, 1 525 MHz to 1 544 MHz and 1 555 MHz to 1 559 MHz, allocated by the ITU-R Radio Regulations</li> </ul>			
Mobile Earth Stations (MES) used within the Mobile Satellite Services (MSS)	SANS 301489-20 (EN 301489-20 V1.2.1)	None	
<ul style="list-style-type: none"> <li>▪ MES operating within 1.6 GHz/2.4 GHz band</li> <li>▪ MES Operating within the 1.5 GHz/1.6 GHz</li> <li>▪ MES operating within the 2.0 GHz band</li> <li>▪ MES operating below 1 GHz</li> <li>▪ MES operating in the 11 GHz/12 GHz/14 GHz frequency bands</li> </ul>			
Ground based VHF aeronautical mobile and fixed radio equipment	SANS 301489-22 (EN 301489-22 V1.3.1)	None	
<ul style="list-style-type: none"> <li>▪ Ground based aeronautical VHF radio communications equipment <ul style="list-style-type: none"> <li>○ operating in the frequency range 118 MHz to 136,975 MHz, at 8,33 kHz or 25 kHz channel spacing,</li> <li>○ using DSB AM, GFSK or D8PSK modulation;</li> <li>○ comprises ground base station, mobile, and hand held/portable applications</li> </ul> </li> <li>▪ Ground based aeronautical VDL Mode 2 and VDL Mode 4 radio communications equipment</li> </ul>			
IMT-2000 CDMA Direct Spread (UTRA) base station	SANS 301489-23 (EN 301489-23 V1.3.1)		
<ul style="list-style-type: none"> <li>▪ Applies to 3rd Generation Partnership Project (UTRA) radio equipment intended for use in digital cellular mobile radio</li> </ul>			

	SANS 301489-23 (EN 301489-23 V1.4.1)	(EN 301489-23 V1.3.1)	2015-12-31
	SANS 301489-23 (EN 301489-23 V1.5.1)	SANS 301489-23 (EN 301489-23 V1.4.1)	2015-12-31

Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
IMT-2000 CDMA Direct Spread (UTRA) for mobile and portable radio	SANS EN 301489-24 (EN 301489-24 V1.4.1)	SANS 301489-24 (EN 301489-24 V1.3.1)	2015-12-31
<ul style="list-style-type: none"> <li>▪ Applies to the 3rd Generation Partnership Project (UTRA) digital cellular mobile and portable radio equipment</li> </ul>	SANS 301489-24 (EN 301489-24 V1.5.1)	SANS 301489-24 (EN 301489-24 V1.4.1)	2015-12-31
CDMA 1x spread spectrum Mobile Stations	SANS 301489-25 (EN 301489-25 V2.3.2)	SANS 301489-25 (EN 301489-25 V2.2.1)	Immediate
<ul style="list-style-type: none"> <li>▪ Applies to IMT-2000 CDMA Multi-carrier systems digital cellular mobile and portable radio equipment</li> <li>▪ Applies to CDMA PAMR systems mobile and portable radio equipment</li> </ul>			
CDMA 1x spread spectrum Base Stations	SANS 301489-26 (EN 301489-26 V2.3.2)	SANS 301489-26	Immediate

<ul style="list-style-type: none"> <li>▪ Applies to IMT-2000 CDMA Multi-carrier radio equipment intended for use in digital cellular mobile radio services</li> <li>▪ Applies to CDMA-PAMR radio equipment</li> <li>▪ Applies to non-frequency converting repeaters intended for use in CDMA 1x spread spectrum networks</li> </ul>			
Marine Radio Equipment and Services			
Common technical requirements	SANS 301843-1 (EN 301843-1:2000 V1.2.2)	None	
VHF radiotelephone transmitters and receivers	SANS 301843-2 (EN 301843-2:2002 V1.2.1)	None	

## 10.2 Safety Standards

Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Safety of information technology equipment	SANS 60950 (IEC 60950 Ed1)		
	SANS 60950 (IEC 60950 Ed2)	SANS 60950 (IEC 60950 Ed1)	2015-12-31
Audio, Video, and similar electronic equipment	SANS 60065 (IEC 60065)	None	Immediate
Electrical equipment for test and measurement, control, and laboratory use	SANS 61010-1 (IEC 61010-1)	None	Immediate

## 10.3. Performance Standards

Classification of Equipment	Applicable standard	Standard to be replaced	Date of when the standard will be replaced
Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks			
Introduction and common requirements	SANS 301908-1 (EN 301908-1 V2.2.1)	None	
CDMA Direct Spread (UTRA FDD) (UE)	SANS 301908-2 (EN 301908-2 V2.2.1)	None	
CDMA Direct Spread (UTRA FDD) (BS)	SANS 301908-3 (EN 301908-3 V2.2.1)	None	
CDMA Multi-Carrier (cdma2000) (UE)	SANS 301908-4 (EN 301908-4 V2.2.1)	None	
CDMA Multi-Carrier (cdma2000) (BS and Repeaters)	SANS 301908-5 (EN 301908-5 V2.2.1)	None	
CDMA TDD (UTRA TDD) (UE)	SANS 301908-6 (EN 301908-6 V2.2.1)	None	
CDMA TDD (UTRA TDD) (BS)	SANS 301908-7 (EN 301908-7 V2.2.2)	EN 301908-7 V2.2.1	Immediate
CDMA Direct Spread (UTRA FDD) (Repeaters)	SANS 301908-11 (EN 301 908-11 V2.3.1)	None	



Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN	SANS 301893 (EN 301893 V1.3.1)		
	(EN 301893 V1.4.1)	SANS 301893 (EN 301893 V1.3.1)	2015-12-31
	(EN 301893 V1.5.1)	(EN 301893 V1.4.1)	2015-12-31
<b>On-site paging service</b>	SANS 300224-2:2005 (EN 300 224-2 V1.1.1)	None	
<b>Land Mobile Service</b>			
Radio equipment with an internal or external RF connector intended primarily for analogue speech	SANS 300086-2 (EN 300 086-2 V1.1.1)	None	
Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector;	SANS 300113-2 (EN 300 113-2 V1.3.1)	None	
Radio equipment using integral antennas intended primarily for analogue speech;	SANS 300 296-2 (EN 300 296-2 V1.1.1)	None	
<b>Terrestrial Trunked Radio (TETRA)</b>			
Voice plus Data (V+D)	SANS 303035-1 (EN 303 035-1 V1.2.1)	None	
Direct Mode Operation (DMO)	SANS 303 035-2 (EN 303 035-2 V1.2.2)	None	
Terrestrial Trunked Radio (TETRA 2)	SANS 302561 (EN 302561: 2010 Ed1)	None	
	SANS 302561 (EN 302561: 2010 V1.2.1)	SANS 302561 (EN 302561: 2010 Ed1)	2015-12-31
<b>Global System for Mobile communications (GSM)</b>			
Base Station and Repeater equipment	SANS 301502 (EN 301502 V 8.1.2)	None	
Mobile Stations in the GSM900 and DCS1800 bands	SANS 301511 (EN 301511 V 9.0.2)	None	

Technical performance (narrowband analogue mobile radio services)	SANS 0262-1:2003 Ed2	None	
	SANS 10262-1:2003 Ed2.01	SANS 0262-1:2003 Ed2	Immediate
<b>Access Network xDSL transmission filters</b>			
Generic specification of the low pass part of DSL over POTS splitters, including dedicated annexes for specific xDSL variants	SANS 101952-1-1 (EN 101952-1-1:2004 V1.2.1)	None	
Specification of the high pass part of ADSL/POTS splitters	SANS 101952-1-2 (EN 101952-1-2:2002 V1.1.1)	None	
Specification of ADSL/ISDN splitters	SANS 101952-1-3 (EN 101952-1-3:2002 V1.1.1)	None	
Specification of ADSL over ISDN or POTS universal splitters	SANS 101952-1-4 (EN 101952-1-4:2002 V1.1.1)	None	
Specification for ADSL over POTS distributed filters	SANS 101952-1-5 (EN 101952-1-5:2006 V1.2.1)	None	
<b>ADSL transceivers</b>			
General requirements for ADSL	ITU-T Recommendation G992.1 (1999) amendment 1 (03/03)	None	
Extended bandwidth ADSL2 (ADSL2+)	ITU-T Recommendation G992.5 (01/09)	None	
VDSL2	ITU-T Recommendation G993.2 (12/11)	None	
<b>ISDN and Leased line</b>			

ISDN basic rate	ETSI TBR003: 1995 Issue 1	None	
ISDN Primary rate	ETSI TBR004: 1996 Issue 1	None	
Digital unstructured leased line	ETSI TBR012: 1993 Issue 1	None	
Digital structured leased line	ETSI TBR013: 1996 Issue 1	None	
<b>Point-to-point digital fixed radio systems</b>			
Generic specification for point-to-point digital fixed radio systems and antennas	SANS 301751 (EN 301751:2002 V1.2.1)	None	
Low capacity point-to-point digital radio systems operating in the 1.4 GHz frequency band	SANS 300630 (EN 300630: 2001 V1.3.1)	None	
Low and medium capacity point-to-point digital radio systems operating in the frequency range 2.1 GHz to 2.6 GHz	SANS 300633 (EN 300633: 2001 V1.3.1)	None	
High capacity digital radio systems carrying 1 x STM-1 signals and operating frequency bands with about 30 MHz channel spacing and alternated arrangements	SANS 300234 (EN 300234: 2001 V1.3.2)	None	
High Capacity fixed radio systems carrying SDH signals (2 x STM-1) in frequency bands with 40 MHz channel spacing and using CCDP operation	SANS 301461 (EN 301461: 2002 V1.3.1)	None	
High Capacity digital radio systems transmitting STM-4 or 4 x STM-1 in a 40 MHz radio frequency channel using CCDP operation	SANS 301277 (EN 301277: 2001 V1.2.1)	None	

High capacity digital radio systems carrying SDH signals (up to 2 x STM-1) in the frequency bands with about 30 MHz channel spacing and using co-polar arrangements or CCDP operation	SANS 301127 (EN 301127:2002 V1.3.1)	None	
High Capacity digital radio systems carrying STM-4 in two 40 MHz channels or 2 x STM-1 in a 40 MHz channel with alternate channel arrangement	SANS 301669 (EN 301669: 2001 V1.2.1)	None	
PDH; Low and medium capacity and STM-0 digital radio system operating in the frequency range 3 GHz to 11 GHz	SANS 301216 (EN 301216: 2001 V1.2.1)	None	
PDH; Low and medium capacity digital radio systems operating in the 13 GHz, 15 GHz and 18 GHz frequency bands	SANS 301128 (EN 301128: 2001 V1.2.1)	None	
Sub-STM-1 digital radio systems operating in the 13 GHz, 15 GHz and 18 GHz frequency bands with about 28 MHz co-polar and 14 MHz cross-polar channel spacing	SANS 300639 (EN 300639: 2001 V1.3.1)	None	
Sub-STM-1 digital radio systems operating in the 13 GHz, 15 GHz and 18 GHz frequency bands with about 14 MHz co-polar channel spacing	SANS 300786 (EN 300786: 2001 V1.3.1 )	None	
Parameters for radio systems for the transmission of STM-1 digital signals operating in the 18 GHz frequency band with channel spacing of 55 MHz and 27.5 MHz	SANS 300430 (EN 300430: 2002 V1.4.1)	None	
Parameters for radio systems for the transmission of digital signals operating at 23 GHz	SANS 300198 (EN 300198: 2002 V1.5.1)	None	
Parameters for radio system for the transmission of digital signals operating in the frequency range 24.50 GHz to 29.50 GHz	SANS 300431 (EN 300431: 2002 V1.4.1)	None	

Parameters for radio systems for the transmission of digital signals operating at 32 GHz and 38 GHz	SANS 300197 (EN 300197: 2002 V1.6.1)	None	
Characteristics and requirements for point-to-point equipment and antennas; Part 3: Equipment operating in frequency bands where both frequency coordinated or uncoordinated deployment might be applied	SANS 302217-3(EN 302217-3: 2005 V1.1.3)	None	
Characteristics and requirements for point-to-point equipment and antennas; Part 4-2: Antennas	SANS 302217-4-2(EN 302217-4-2: 2006 V1.2.1)	None	
Characteristics and requirements for point-to-point equipment and antennas; Part 2-2: Digital systems operating in frequency bands where frequency co-ordination is applied	SANS 302217-2-2(EN 302217-2-2: 2004 V1.1.3)	None	
<b>Point-to-multipoint Systems</b>			
Generic specification for multipoint digital fixed radio systems and antennas	SANS 301753 (EN 301753: 2003 V1.2.1)	None	
TDMA; Point-to-multipoint digital radio systems in frequency bands in the range 1 GHz to 3 GHz	SANS 300636 (EN 300636: 2001 V1.3.1)	None	
TDMA; Point-to-multipoint digital radio systems in frequency bands in the range 3 GHz to 11 GHz	SANS 301021 (EN 301021: 2003 V1.6.1)	None	
Point-to-multipoint digital radio systems in frequency bands in the range 24,25 GHz to 29.5 GHz	SANS 301213 (EN 301213: 2002 V1.1.2)	None	
Point-to-multipoint system with integral antennas in frequency bands: <ul style="list-style-type: none"> <li>• 30 MHz to 11,00 GHz.</li> <li>• 24,25 GHz to 29,50 GHz.</li> <li>• 31,00 GHz to 33,40 GHz.</li> </ul>	SANS 302326-2 (EN 302326-2: 2006 V1.1.2)	None	

Antennas (whether integral or non-integral) used in multipoint radio systems operating in the following frequency bands:  <ul style="list-style-type: none"> <li>• 1 GHz to 3 GHz;</li> <li>• 3 GHz to 5,9 GHz;</li> <li>• 5,9 GHz to 8,5 GHz;</li> <li>• 8,5 GHz to 11 GHz;</li> <li>• 24,25 GHz to 30 GHz;</li> <li>• 30 GHz to 40,5 GHz.</li> </ul>	SANS 302326-3 (EN 302326-3: 2006 V1.1.2)	None	
<b>Satellite Earth Station Systems</b>			
VSAT; transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4 GHz and 6 GHz frequency bands	SANS 301443 (EN 301443: 2006 V1.3.1)	None	
VSAT; transmit-only, transmit/receive or receive satellite earth stations operating in the 11/12/14 GHz frequency bands	SANS 301428 (EN 301428: 2006 V1.3.1)	None	
Satellite News Gathering Transportable Earth Stations (SNG TES) operating in the 11-12/13-14 GHz frequency bands	SANS 301430 (EN 301430: 2000 V1.1.1)	None	
<b>Cordless Telephone Equipment</b>			
Digital Enhanced Cordless Telecommunications (DECT) covering the essential requirements	SANS 301406 (EN 301406: 2003 V1.5.1)	None	
CT2 cordless telephone equipment	SANS 301797 (EN 301797: 2000 V1.1.1)	None	
<b>Digital Broadcasting Services</b>			
Set-top box decoder for free-to-air digital terrestrial television	SANS 862	None	Immediate

## 11. Non-telecommunication EMC standards

Classification of equipment	Emissions standard	Immunity standard
Industrial, Scientific and Medical (ISM) equipment, excluding telecommunications equipment operating in the ISM bands mandated by ITU-R	SANS 211 (CISPR 11)	SANS 224 (CISPR 24)
Vehicles, boats and internal combustion engine-driven devices	SANS 212 (CISPR 12) (*1)	Nil
Sound and television broadcast receivers and associated equipment, terrestrial and/or satellite	SANS 213 (CISPR 13) (*2)	SANS 2200 (CISPR 20)
Household appliances, electric tools and similar apparatus	SANS 214-1 (CISPR 14-1)	SANS 14-2 (CISPR 14-2)
Electrical lighting and similar equipment	SANS 215 (CISPR 15)	SANS 61547 (IEC 61547)
Information Technology Equipment (ITE)	SANS 222 (CISPR 22)	SANS 224 (CISPR 24)
Low-voltage switchgear and controlgear assemblies - Part 1: Type-tested and partially type-tested assemblies	SANS 60439-1 (IEC 60439-1)	SANS 60439-2 (IEC 60439-2)
Alternating-current watt-hour meters Class 0,5, 1 and 2	SANS 222 (CISPR 22) (Contained in SABS 1524)	SANS 224 (CISPR 24)
Low voltage power supplies, d.c. output	SANS 61204-3 (IEC 61204-3)	SANS 61204-3 (IEC 61204-3)
Electrical equipment for measurement, control and laboratory use	SANS 61326 (IEC 61326)	SANS 61326 (IEC 61326)
Adjustable speed electrical power drive systems	SANS 61800-3 (IEC 61800-3)	SANS 61800-3 (IEC 61800-3)
Uninterruptible power systems (UPS)	SANS 62040-2 (IEC 62040-2)	SANS 62040-2 (IEC 62040-2)
Alarm systems --fire, intruder and social alarm systems	SANS 222 (CISPR 22)	EN 50130-4

\*1 This standard refers to emissions from boats and vehicles, and is not applicable to aircraft or traction systems.

\*2 This standard does not apply to sound and television collective distribution systems. For such systems, SANS 60728-2 must apply.

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