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**AIDS HELPLINE: 0800-0123-22 Prevention is the cure**

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**CONTENTS • INHOUD**

No.

Page  
No.      Gazette  
            No.

**GENERAL NOTICE**

**Independent Communications Authority of South Africa**

*General Notice*

|      |  |   |       |
|------|--|---|-------|
| 2212 | Telecommunications Act (103/1996): Notice of intention to publish the official list of regulated telecommunication standards of ICASA which define the mandatory EMC standards to which all electrical and electronic shall be shown to comply in accordance with <i>Government Gazette</i> No. 26869 dated 5 October 2004 ..... | 3 | 26876 |
|------|--|---|-------|

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## GENERAL NOTICE

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### NOTICE 2212 OF 2004



NOTICE OF INTENTION TO PUBLISH THE OFFICIAL LIST OF REGULATED TELECOMMUNICATION STANDARDS OF ICASA WHICH DEFINE THE MANDATORY EMC STANDARDS TO WHICH ALL ELECTRICAL AND ELECTRONIC SHALL BE SHOWN TO COMPLY, IN ACCORDANCE WITH GOVERNMENT GAZETTE NO.26869 DATED 5 OCTOBER 2004

The Independent Communications Authority of South Africa ("the Authority"), hereby gives notice that it intends making the following regulations in terms of section 96(1) read with section 55(1) of the Telecommunications Act, 1996 (Act No. 103 of 1996), as amended.

Interested persons are hereby invited to submit written comments or written representations with regard to the proposed regulations, to be received **by no later than 16h00 on the 18TH of November 2004** by post, hand delivery or facsimile transmission and by an electronic version in Microsoft Word for the attention of Mr Praneel Ruplal, Independent Communications Authority of South Africa, Private Bag X10002, Marlboro, 2063; Block A, Pin Mill Farm, 164 Katherine Street, Sandton; Facsimile (011) 321 8581, Telephone 011 321 8348 or 083 6800 039 or e-mail : PRuplal@icasa.org.za

**MANDLA LANGA  
CHAIRPERSON  
ICASA**

## OFFICIAL LIST OF REGULATED TELECOMMUNICATION STANDARDS ICASA

This list defines the mandatory EMC standards to which all electrical and electronic shall be shown to comply, in accordance with Government Gazette No. 26869 dated 5 October 2004.

Where no reference is made as to the installation type, or that the equipment may be installed in Domestic or Industrial sites, the Domestic levels shall apply.

In the case of emission standards, the test equipment shall be in accordance with SANS 216 (CISPR 16). For immunity standards, the test equipment shall be in accordance with the relevant standard.

### BASIC EMC STANDARDS

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

| Classification of Equipment   | Applicable standard                 | Date of mandatory implementation of immunity requirements |
|---|-------------------------------------|---|
| Specification for radio disturbance and immunity measuring apparatus and methods - Part 1: Radio disturbance and immunity measuring apparatus   | SANS 216-1<br>(CISPR 16-1)          | July 2006   |
| Specification for radio disturbance and immunity measuring apparatus and methods - Part 2: Methods of measurement of disturbances and immunity  | SANS 216-2<br>(CISPR 16-2)          | July 2006   |
| Limits for harmonic current emissions (equipment input current $\leq$ 16A per phase)  | IEC 61000-3-2<br>(SANS 61000-3-2)   | December, 2006  |
| 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 | IEC 61000-3-3<br>(SANS 61000-3-3)   | December, 2006  |
| Limits - Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A   | IEC 61000-3-4<br>(SANS 61000-3-4)   | December, 2006  |
| Electrostatic discharge immunity test   | IEC 61000-4-2<br>(SANS 61000-4-2)   | Published for comment                                     |
| Radiated, radio-frequency, electromagnetic field immunity test  | IEC 61000-4-3<br>(SANS 61000-4-3)   | Published for comment                                     |
| Electrical fast transient/burst immunity test   | IEC 61000-4-4<br>(SANS 61000-4-4)   | Published for comment                                     |
| Surge immunity test   | IEC 61000-4-5<br>(SANS 61000-4-5)   | Published for comment                                     |
| Immunity to conducted disturbances, induced by radio-frequency fields   | IEC 61000-4-6<br>(SANS 61000-4-6)   | Published for comment                                     |
| General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected  | IEC 61000-4-7<br>(SANS 61000-4-7)   | December, 2006  |
| Oscillatory waves immunity test   | IEC 61000-4-12<br>(SANS 61000-4-12) | Published for comment                                     |

|   |                                     |               |
|---|-------------------------------------|---------------|
| Ripple on D.C. input power port immunity test | IEC 61000-4-17<br>(SANS 61000-4-17) | December,2006 |
|---|-------------------------------------|---------------|

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

| Classification of equipment                           | Emissions standard                | Immunity standard                 | Date of mandatory implementation |
|---|-----------------------------------|-----------------------------------|----------------------------------|
| Residential, Commercial and Light-industrial products | SANS 61000-6-3<br>(IEC 61000-6-3) | SANS 61000-6-1<br>(IEC 61000-6-1) | December,2006                    |
| Industrial products                                   | IEC 61000-6-4                     | IEC 61000-6-2                     | December,2006                    |

**Non-Telecommunications EMC standards**

| Classification of equipment   | Emissions standard<br>(Current) | Immunity standard      | Date of mandatory immunity implementation |
|---|---------------------------------|------------------------|---|
| Industrial, Scientific and Medical (ISM) equipment, excluding telecommunications equipment operating in the ISM bands mandated by ITU-R | SANS 211<br>(CISPR 11)          | SANS 224<br>(CISPR 24) | June,2007                                 |
| Vehicles, boats and internal combustion engine-driven devices   | SANS 212<br>(CISPR 12) (*1)     | Nil                    | June,2007                                 |
| Sound and television broadcast receivers and associated equipment, terrestrial and/or satellite   | SANS 213<br>(CISPR 13) (*2)     | SANS 220<br>(CISPR 20) | June,2007                                 |
| Household appliances, electric tools and similar apparatus  | SANS 214-1<br>(CISPR 14-1)      | (CISPR 14-2)           | June,2007                                 |
| Electrical lighting and similar equipment   | SANS 215<br>(CISPR 15)          | IEC 61547              | June,2007                                 |
| High-voltage power lines, high-voltage equipment and electric traction systems  | CISPR 18                        | Nil                    | June,2007                                 |
| Power distribution systems  | CISPR 18                        | Nil                    | June,2007                                 |
| Information Technology Equipment (ITE)  | SANS 222<br>(CISPR 22)          | SANS 224<br>(CISPR 24) | June,2007                                 |
| Equipment fitted on board vehicles, boats and on similar devices  | CISPR 25                        |                        | June,2007                                 |
| Audio, video, audio-visual and entertainment lighting control apparatus for professional use --   | EN 55103-1                      | EN 55103-2             | June,2007                                 |
| Low-voltage switchgear and controlgear assemblies -- Part 1: Type-tested and partially type-tested assemblies                           | IEC 60439-1                     | IEC 60439-2            | June,2007                                 |

|  |   |                        |           |
|--|---|------------------------|-----------|
| Alternating-current watt-hour meters Class 0,5, 1 and 2  | SANS 222<br>(CISPR 22)<br>(Contained in<br>SABS 1524) | SANS 224<br>(CISPR 24) | June,2007 |
| Low voltage power supplies, d.c. output  | IEC 61204-3   | IEC 61204-3            | June,2007 |
| Electrical equipment for measurement, control and laboratory use                                   | IEC 61326   | IEC 61326              | June,2007 |
| Adjustable speed electrical power drive systems  | IEC 61800-3   | IEC 61800-3            | June,2007 |
| Uninterruptible power systems (UPS)  | EN 50091-2  | EN 50091-2             | June,2007 |
| Alarm systems –fire, intruder and social alarm systems   | SANS 222  | 50130-4                | June,2006 |
| Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen | EN 50270  | EN 50270               | June,2007 |
| Substitution method of measurement of Microwave Ovens  | CISPR 19 (*3)   | Nil                    |           |

**\*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, IEC 60728-2 shall apply.**

**\*3 This is a recommendation, not a mandatory specification.**

### Telecommunications Equipment

| Classification of Equipment                | Emissions standards   | Immunity standards | Date of mandatory implementation of immunity requirements |
|--|---|--------------------|---|
| Radio communication equipment and services | <p>SANS 300339 (EN 300339) &amp; SANS 301489-1 (EN 301489-1)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul> <p><b>The following changes to this standard shall be enforced:</b></p> <ul style="list-style-type: none"> <li>- Reference to EN 50081-1 shall be replaced by SANS 61000-6-3 (IEC 61000-6-3)</li> <li>- Reference to EN 50082-1 shall be replaced by SANS 61000-6-1 (IEC 61000-6-1)</li> <li>- Reference to EN 55022 shall be replaced by SANS 222 (CISPR 22)</li> </ul> |                    | December,2006   |

### Non-radio Telecommunications Equipment

| Classification of Equipment  | Emissions standards   | Immunity standards | Date of mandatory implementation of immunity requirements |
|--|---|--------------------|---|
| <p><b>Equipment intended to be used within a telecommunications network</b></p> <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</li> </ul> | <p>SANS 300386 (EN 300386)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 98/34/EC</li> <li>- Council Directive 89/336/EEC</li> </ul> <p><b>The following changes to this standard shall be enforced:</b></p> <ul style="list-style-type: none"> <li>- Reference to EN 50081-1 shall be replaced by SANS 61000-6-3 (IEC 61000-6-3)</li> </ul> |                    | December,2006   |

|  |  |                       |
|--|--|-----------------------|
| <ul style="list-style-type: none"> <li>o Central power plant</li> <li>o End of suite power supplies</li> <li>o Uninterruptible power supplies (UPS)</li> <li>o Stabilized AC power supplies</li> <li>o Other dedicated telecommunication network power supplies, but exclude equipment which is uniquely associated with or integrated in other equipment</li> </ul> | <p>61000-6-3 (IEC 61000-6-3)</p> <ul style="list-style-type: none"> <li>- Reference to EN 50082-1 shall be replaced by SANS 61000-6-1 (IEC 61000-6-1)</li> <li>- Reference to EN 55022 shall be replaced by SANS 222 (CISPR 22)</li> </ul> |                       |
| <ul style="list-style-type: none"> <li>▪ Supervisory equipment</li> </ul>  |  |                       |
| <ul style="list-style-type: none"> <li>o Network management equipment</li> <li>o Operator access maintenance equipment</li> <li>o Traffic measurement systems</li> <li>o Line test units</li> <li>o Functional test units</li> </ul>   |  |                       |
| <p><b>Physical large telecommunication systems</b></p>   |  |                       |
| <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>  | <p>SANS 300127 (EN 300127) (Only emissions)</p> <p><b>The following changes to this standard shall be enforced:</b></p> <p>Reference to EN 55022 shall be replaced by SANS 222 (CISPR 22)</p>  | <p>December, 2006</p> |

**Radio Communications Equipment**

| Classification of Equipment   | Emissions standards  | Immunity standards | Date of mandatory implementation of immunity requirements |
|---|--|--------------------|---|
| <p align="center"><b>Radio Paging Equipment</b></p> <ul style="list-style-type: none"> <li>▪ Covers the assessment of paging equipment (receivers, transmitters and combined equipment) and ancillary equipment</li> </ul>  | <p>SANS 301489-2 (EN 301489-2)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul> |                    |   |
| <p><b>Short-Range Devices (SRD) – 9 kHz to 40 GHz</b></p> <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> | <p>SANS 301489-3 (EN 301489-3)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul> |                    | December, 2006  |

| Classification of Equipment  | Emissions standards   | Immunity standards | Date of mandatory implementation of immunity requirements |
|--|---|--------------------|---|
| <p><b>Fixed radio links and ancillary equipment</b></p> <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 300385 (EN 300385)<br/>&amp;<br/>SANS 301489-4 (EN 301489-4)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul> <p><b>The following changes to this standard shall be enforced:</b></p> <ul style="list-style-type: none"> <li>- Reference to EN 50081-1 shall be replaced by SANS 61000-6-3 (IEC 61000-6-3)</li> <li>- Reference to EN 50082-1 shall be replaced by SANS 61000-6-1 (IEC 61000-6-1)</li> <li>- Reference to EN 55022 shall be replaced by SANS 222 (CISPR 22)</li> </ul> |                    | <p>December, 2006</p>                                     |

| Classification of Equipment   | Emissions standards  | Immunity standards | Date of mandatory implementation of immunity requirements |
|---|--|--------------------|---|
| <p style="text-align: center;"><b>DECT</b></p> <ul style="list-style-type: none"> <li>▪ Digital Enhanced Cordless Telecommunications (DECT) equipment</li> </ul>  | <p style="text-align: center;">ETS 300329<br/>&amp;<br/>SANS 301489-6 (EN 301489-6)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul> <p><b>The following changes to this standard shall be enforced:</b></p> <ul style="list-style-type: none"> <li>- Reference to EN 50081-1 shall be replaced by SANS 61000-6-3 (IEC 61000-6-3)</li> <li>- Reference to EN 50082-1 shall be replaced by SANS 61000-6-1 (IEC 61000-6-1)</li> <li>- Reference to EN 55022 shall be replaced by SANS 222 (CISPR 22)</li> </ul> |                    | December,2006   |
| <p style="text-align: center;"><b>GSM and DCS</b></p> <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> | <p style="text-align: center;">SANS 301489-7 (EN 301489-7)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul>   |                    | December,2006   |
| <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>   | <p style="text-align: center;">SANS 301 489-8 (EN 301489-8)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul>  |                    | December,2006   |

| Classification of Equipment  | Emissions standards   | Immunity standards | Date of mandatory implementation of immunity requirements |
|--|---|--------------------|---|
| <p><b>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)</b></p> <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 301 489-12 (EN 301489-12)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul> |                    | December, 2006  |
| <p><b>2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment</b></p> <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>   | <p>SANS 301489-17 (EN 301489-17)</p> <p><b>The following references within this standard are not applicable to the South African Environment:</b></p> <ul style="list-style-type: none"> <li>- EU Directive 1999/5/EC</li> <li>- EU Directive 89/336/EEC</li> <li>- EU Directive 73/23/EEC</li> <li>- EU Directive 98/34/EC</li> </ul>  |                    | December, 2006  |

### Other Product-family EMC standards

| Classification of equipment   | Applicable standards        |                             |
|---|-----------------------------|-----------------------------|
|   | Emission                    | Immunity                    |
| Radio communication equipment   | SANS 300339 (EN 300339)     | SANS 300339 (EN 300339)     |
| Radio equipment and services  | SANS 301489-1 (EN 301489-1) | SANS 301489-1 (EN 301489-1) |
| Maritime radio equipment and services – Common technical requirements <i>(The provisions of the present document apply to marine radio equipment not covered in the scope of the Council Directive on marine equipment (the "Marine Equipment Directive" 96/98/EC [6]).</i> | EN 301843-1                 | EN 301843-1                 |

**Appendix 1**

*Classes of equipment which have no relevant adopted standards in SA as of Jan 2004, and are under consideration.*

| <b>Classification of equipment</b>  | <b>Emissions standard</b> | <b>Immunity standard</b> | <b>Date of mandatory implementation</b> |
|---|---------------------------|--------------------------|---|
| Residual current-operated protective devices (RCDs) for household and similar use | <i>IEC 61543</i>          | <i>IEC 61543</i>         | <i>June, 2006</i>                       |
| Lifts, escalators and passenger conveyors   | <i>EN 12015</i>           | <i>EN 12016</i>          | <i>June, 2007</i>                       |
| Construction machinery - machines with internal electrical power supply           | <i>EN 13309</i>           | <i>EN 13309</i>          | <i>June, 2007</i>                       |
| Agricultural and forestry machines ISO 14982                                      | <i>ISO 14982</i>          | <i>ISO 14982</i>         | <i>June, 2007</i>                       |
| Arc welding equipment   | <i>EN 50199</i>           | <i>EN 50199</i>          | <i>June, 2007</i>                       |
| Measuring relays and protection equipment   | <i>EN 50263</i>           | <i>EN 50263</i>          | <i>June, 2007</i>                       |
| Road traffic signal systems   | <i>EN 50293</i>           | <i>EN 50293</i>          | <i>June, 2007</i>                       |

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