

Annex to declaration of accreditation (scope of accreditation)  
Normative document: EN ISO/IEC 17025:2017  
Registration number: **L 021**

of **Telefication B.V.**  
**Laboratorium**

This annex is valid from: **16-03-2022** to **01-07-2025**

Replaces annex dated: **02-03-2022**

**Location(s) where activities are performed under accreditation**

**Head Office**

Wilmersdorf 50  
7327 AC  
Apeldoorn  
The Netherlands

<b>Location</b>	<b>Abbreviation/ location code</b>
Wilmersdorf 50 7327 AC Apeldoorn The Netherlands	AP

This annex has been approved by the Board of the  
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
1	<b>Electrical and Electronic Equipment</b> (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers.)	Functional tests and verification of the requirements for (fire)alarm components.	IRN 103 Control and indicating equipment IRN 104 Warning devices IRN 106 Power Supply IRN 110 Supervised Premises Transceiver (SPT) IRN 122 Intrusion detectors – Passive infrared IRN 126 Magnetic contacts IRN 127 Glass break detectors IRN 128 Shock detectors IRN 131 T031 Belgium standard IRN 134 Social Alarm IRN 153 Radio frequency (RF) interconnections IRN 162 Alarm transmission systems - Requirements for SPT IRN 163 Alarm Transmission systems - Requirements for Receiving Centre Transceiver (RCT) IRN 202 Fire panel IRN 203 Sounders IRN 205 Heat detectors IRN 207 Smoke detectors IRN 211 Manual call point	AP

<sup>1</sup> If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).  
 If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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			IRN 216 Voice Evacuation & Control and Indicating Equipment  IRN 217 Isolator  IRN 218 In-/Output module  IRN 223 Visual Alarm Devices  IRN 224 Loudspeakers  IRN 229 Fire alarm devices – Multi-sensor fire detectors	
2	<b>Electrical and Electronic Equipment</b> (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers.)	Environmental tests for (fire)alarm components.	IRN 304 EMC for (fire) alarm components  IRN 305 Alarm systems - Environmental test methods	AP

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<b>Radio Testing</b>				
3	<b>Electrical and Electronic Equipment</b> (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers.)	Frequency (Hz) 30 Hz – 26 GHz	IRN 005 RSS-Gen, ANSI 63.10-2013, ANSI 63.26-2015, Ordinance Regulating Radio Equipment (Radio Regulatory Commission rules No. 18), (Radio Law Japan)	AP
4		Duty cycle 0 to 100 %	IRN 013 RSS-GEN, ANSI 63.10-2013, ANSI 63.26-2015	AP
5		RF Power (W) 10 nW to 1 kW @ 9 kHz – 40 GHz	IRN 014 RSS-GEN, ANSI 63.10-2013, ANSI 63.26-2015, Ordinance Regulating Radio Equipment (Radio Regulatory Commission rules No. 18), (Radio Law Japan)	AP
6		Adjacent channel Power (W) 10 nW to 50 W @ 9 kHz – 40 GHz	IRN 015	AP
7		Spurious emission (W) 9 kHz – 60 GHz	IRN 016 RSS-GEN, ANSI 63.26-2015, Ordinance Regulating Radio Equipment (Radio Regulatory Commission rules No. 18), (Radio Law Japan)	AP

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8	<b>Electrical and Electronic Equipment</b> (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers.)	Occupied bandwidth (Hz) 0 kHz – 40 GHz	IRN 017 RSS-GEN, ANSI 63.10-2013, ANSI 63.26-2015, Ordinance Regulating Radio Equipment (Radio Regulatory Commission rules No. 18), (Radio Law Japan)	AP
9		Transient Power (W) 10nW to 1W @ 9 kHz – 10 GHz	IRN 018	AP
10		Adjacent channel selectivity (dB) 0 dB to -80 dB @ 9 kHz – 6 GHz	IRN 020	AP
11		Blocking – desensitisation (dB) 9 kHz – 6 GHz	IRN 021 RSS-GEN, ANSI 63.26-2015	AP
12		Sensitivity (V/m or V) -20 dB $\mu$ V to 120 dB $\mu$ V	IRN 024 RSS-GEN, ANSI 63.26-2015	AP
13		RF spectrum mask (W/Hz) 9 kHz – 40 GHz	IRN 025	AP
14		Spurious response rejection (dB) 0 to 110 dB @ 9 kHz – 6 GHz	IRN 028 RSS-GEN	AP
15		Spectral power density (W/Hz) 1nW/MHz to 1 W/MHz	IRN 030 RSS-GEN, ANSI 63.10-2013, ANSI 63.26-2015, Ordinance Regulating Radio Equipment (Radio Regulatory Commission rules No. 18), (Radio Law Japan)	AP

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16	<b>Electrical and Electronic Equipment</b> (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers.)	Adaptivity 100 MHz – 6 GHz	IRN 041	AP
17		Dynamic Frequency Selection (DFS) 100 Hz – 6 GHz	IRN 042	AP
18	IoT consumer products, network-connected (and network-connectable) device that has relationships to associated services and are used by the consumer typically in the home or as electronic wearables	Functionality testing and security testing for resilience against common cyber threats; - Software tests (penetration, passwords, vulnerabilities, integrity and security parameters) - Hardware tests (physical interfaces) - Network and logical interfaces - Attact test (authentication mechanisms) - Userdata delete test		AP

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EMC.E	<b>Electromagnetic Compatibility Emission (EMC)</b>			
<b>EMC.E.02</b>	Electrical and Electronic Equipment  (Including: : (Fire)Alarm Systems, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers)	Conducted Emissions Voltage method (AMN)  9 kHz - 30 MHz	IRN 029 RSS-GEN, ANSI 63.4-2014, ANSI 63.10-2013, ANSI 63.26-2015	AP
<b>EMC.E.03</b>		Conducted Emissions Voltage method (LISN)  9 kHz - 30 MHz	IRN 029 RSS-GEN, ANSI 63.4-2014, ANSI 63.10-2013, ANSI 63.26-2015	AP
<b>EMC.E.15</b>		Radiated Emissions Semi Anechoic Chamber Method (SACM)  9 kHz - 40GHz	IRN 026 RSS-GEN, ANSI 63.4-2014, ANSI 63.10-2013, ANSI 63.26-2015	AP
<b>EMC.E.19</b>		Radiated Emissions Van Veen loop method  9 kHz – 30 MHz	IRN 027	AP
<b>EMC.E.20</b>		Radiated Emissions 60 cm loop method  9 kHz – 30 MHz	IRN 027	AP
<b>EMC.E.34</b>		Conducted Emissions Voltage method (AAN)  9 kHz - 30 MHz	IRN 029 RSS-GEN, ANSI 63.4-2014, ANSI 63.10-2013, ANSI 63.26-2015	AP

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EMC.I	Electromagnetic Compatibility Immunity			
<b>EMC.I.07</b>	Electrical and Electronic Equipment  (Including: : (Fire)Alarm Systems, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers)	Immunity to conducted disturbances Induced by radio-frequency fields  Up to 10 Vrms 150 kHz - 230 MHz	IRN 034 EN 61000-4-6	AP
<b>EMC.I.12</b>		Radiated Immunity Electric Field  80 MHz – 6 GHz  Up to 20 V/m	IRN 035 EN 61000-4-3	AP
<b>EMC.I.21</b>		Electrostatic discharge Immunity (ESD)  Contact discharge 0 - 15 kV Air discharge 0 – 15 kV	IRN 036 EN 61000-4-2	AP
<b>EMC.I.22</b>		Electrical fast transient / burst Immunity (EFT)  DC + 1 phase 0.25 - 4 kV	IRN 038 EN 61000-4-4	AP
<b>EMC.I.23</b>		Surge Immunity  DC + 1 phase max 16A 0.2 - 4 kV  10/700 µs, 1.2/50 (8/20) µs	IRN 037 EN 61000-4-5	AP
<b>EMC.I.24</b>		Power frequency magnetic field Immunity  50/60 Hz 1 – 30 A/m	IRN 040; EN 61000-4-8	AP



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<b>EMC.I.26</b>	Electrical and Electronic Equipment  (Including: : (Fire)Alarm Systems, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers)	Voltage dips, short interruptions and voltage variations Immunity  1 phase max 16A 0° - 360°	IRN 039 EN 61000-4-11	AP

**Product standards containing one or more of the above mentioned test activities are listed below. Accreditation is only applicable to the tests mentioned above.**

**Fire/Security Components & Systems**

a	<b>Fire/Security Components &amp; Systems</b>  (Including Intrusion Systems, Access Control Systems and Social (Fire)Alarm Systems)  <b>Fire/Security Components &amp; Systems</b>  (Including Intrusion Systems, Access Control Systems and Social (Fire)Alarm Systems)	Fire/Security tests:  Limited to the basic tests listed under numbers 1, 2  EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24  EMC.I.26	EN 50130-5, IEC 62599-1 EN 50131-1, EN 50131-2-2, DIN EN 50131-2-2, EN 50131-2-3, EN 50131-2-4, EN 50131-2-6, EN 50131-2-7-1, EN 50131-2-7-2, EN 50131-2-7-3, EN 50131-3, DIN EN 50131-3, EN 50131-4, EN 50131-5-3, DIN EN 50131-5-3, EN 50131-6, DIN EN 50131-6, EN 50131-8, EN 50131-9, EN 50131-10, DIN EN 50131-10, IEC 62642-1, IEC 62642-2-2, IEC 62642-2-3, IEC 62642-2-4, IEC 62642-2-6, IEC 62642-2-71, IEC 62642-2-72, IEC 62642-2-73, IEC 62642-3, IEC 62642-4, IEC 62642-5-3, IEC 62642-6, IEC 62642-8, EN 50133-1, EN 50133-2-1, EN 50133-7, EN 50134-1, EN 50134-3, EN 50134-5, IEC 62851-1, IEC 62851-2, IEC 62851-3, IEC 62851-5 EN 50136-1-1, EN 50136-2-1, EN 50136-2-3, EN 50136-1, DIN EN 50136-1, EN 50136-2, DIN	AP
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	<p><b>Fire/Security Components &amp; Systems</b></p> <p>(Including Intrusion Systems, Access Control Systems and Social (Fire)Alarm Systems)</p> <p><b>Fire/Security Components &amp; Systems</b></p> <p>(Including Intrusion Systems, Access Control Systems and Social (Fire)Alarm Systems)</p>		<p>EN 50136-2, EN 50136-3, IEC 60839-5-1, IEC 60839-5-3, TS 50136-4 EN/IEC 60839-11-1 ISO 7240-1, ISO 7240-2, ISO 7240-3, ISO 7240-4, ISO 7240-11, ISO 7240-13, ISO 7240-16, ISO 7240-17, ISO 7240-18, ISO 7240-21, ISO 7240-23, ISO 7240-24, ISO 7240-25 EN/TS 50398, RE_070, SSF1014 T014, T014A, T031 EN 54-1, EN 54-2, EN 54-3, EN 54-4, EN 54-5, EN 54-7, EN 54-11, EN 54-13, EN 54-16, EN 54-17, EN 54-18, EN 54-21, EN 54-23, EN 54-24, EN 54-25, EN 54-29, AS 4428-16, EN 12094, EN 14604 EN 50131-2-8</p>	
<b>Maritime tests</b>				
b	Maritime Communication and Navigation Equipment	Limited to the basic tests listed under numbers 3-17 EMC.E.02, EMC.E.03, EMC.E.15, EMC.E.19, EMC.E.20, EMC.E.34, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.26	EN 60945, RSS-138, RSS-181, RSS-182, RSS-287, RSS-288, IEC 60092-504, IEC 60533	AP

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<b>Radio Tests</b>				
c	Radio transmitters and receivers	Limited to the basic tests listed under numbers 3-17	AS/NZS 4268, EN 300 113, EN 300 220, EN 300 328, EN 300 330, EN 300 440, EN 301 357, EN 301 511, EN 301 893, EN 301 908, EN 302 291, EN 302 502, LP0002	AP
<b>EMC Emission and Immunity Tests</b>				
d	<b>Electrical and Electronic Equipment</b> (Including: Alarm/Fire Systems, , Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers)	EMC.E.02, EMC.E.03, EMC.E.15, EMC.E.19, EMC.E.20, EMC.E.34 EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.26	Applicable product/basic standards:  EN 50121-4, EN 50130-4, IEC 62599-2, EN 55014-1, EN 55014-2, EN 55032, EN 55024, EN 55103-1, EN 55103-2, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 301 489	AP
<b>FCC (Federal Communications Commission) tests</b>				
e	<b>Electrical and Electronic Equipment</b> (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers.)	Limited to the basic tests listed under numbers 3-17  EMC.E.02, EMC.E.03, EMC.E.15, EMC.E.19, EMC.E.20, EMC.E.34	ANSI C63.4-2014, ANSI C63.10-2013, ANSI C63.17-2013, ANSI C63.26-2015	
	<b>Unintentional Radiators (FCC Part 15, Subpart B)</b>		ANSI C63.4-2014	

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	<b>Industrial, Scientific, and Medical Equipment (FCC Part 18)</b> Consumer ISM equipment		FCC MP-5 (February 1986)	
	<b>Intentional Radiators (FCC Part 15 Subpart C)</b>		ANSI C63.10-2013	
	<b>U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E)</b> Unlicensed National Information Infrastructure Devices (U-NII without DFS)		ANSI C63.10-2013	
	<b>U-NII with DFS Intentional Radiators (FCC Part 15 Subpart E)</b>  Unlicensed National Information Infrastructure U-NII) Devices with Dynamic Frequency Selection (DFS)		FCC KDB Publication 905462 D02 U-NII DFS Compliance Procedures New Rules v02 (April 8, 2016)	
	<b>UWB Intentional Radiators (FCC Part 15, Subpart F)</b> Ultra-wideband Operation		ANSI C63.10-2013	

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	<b>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</b> Part 22 (cellular) Part 24 Part 25 (below 3 GHz) Part 27		ANSI 63.26:2015	
	<b>Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment)</b> Part 80 Part 87		ANSI 63.26:2015	

**ISED (Innovation, Science and Economic Development Canada) tests**

f	<b>Electrical and Electronic Equipment</b> (Including: (Fire) Alarm systems, Telecommunication Terminal Equipment, Maritime Communication and Navigation Equipment and Radio Transmitters and Receivers.)	Limited to the basic tests listed under numbers 3-17  EMC.E.02, EMC.E.03, EMC.E.15, EMC.E.19, EMC.E.20, EMC.E.34	BETS-1, BETS-4, BETS-5, BETS-6, BETS-7, BETS-8, BETS-9  RSS-Gen, RSS-102 (RF Exposure Evaluation), RSS-111, RSS-112, RSS-117, RSS-119, RSS-123, RSS-125, RSS-127, RSS-132, RSS-133, RSS-134, RSS-135, RSS-137, RSS-139, RSS-141, RSS-142, RSS-170, RSS-192, RSS-194, RSS-195, RSS-196, RSS-197, RSS-199, RSS-210, RSS-215, RSS-216, RSS-220, RSS-310, RSS-247	AP
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<b>JAPAN tests</b>				
g	<b>Electrical and Electronic Equipment</b> (Including: Telecommunication Terminal Equipment, Radio Transmitters and Receivers.)	Limited to the basic tests listed under numbers 3-17	Ordinance Regulating Radio Equipment (Radio Regulatory Commission Rules No. 18) (Radio Law Japan)  Ordinance Concerning Terminal Facilities Etc. (Ministerial Ordinance of MPT No. 31) (Telecommunications Business Law Japan)	AP
h	IoT consumer products (such as: baby monitors, smoke detectors, door locks, IoT base stations, smart camera's, smart TV's, smart speakers, smart home assistants, health trackers and connected appliances such as washing machines)  network-connected (and network-connectable) device that has relationships to associated services and are used by the consumer typically in the home or as electronic wearables	Limited to basic tests listed under number 18	ETSI 103 701, ETSI EN 303 645	AP