# ETSI SR 000 314 V2.31.1 (2022-03)



Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards



# Reference RSR/BOARD-00034 Keywords IPR

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# Intellectual Property Rights

#### **Essential patents**

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Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

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#### **Foreword**

The present document identifies IPRs, particularly patents and patent applications, which have been notified to ETSI as being Essential, or Potentially Essential, to ETSI Standards or Technical Specifications.

The present document has been prepared on the basis of information received. ETSI has not checked the validity of the information, nor the relevance of the identified patents/patent applications to the ETSI standards and cannot confirm, or deny, that the patents/patent applications are, in fact, essential, or potentially Essential. No investigation, or IPR searches, have been carried out by ETSI and therefore no guarantee can be given concerning the existence of other IPRs which are, or may become, essential.

It should also be noted that whilst ETSI members are not obliged to conduct IPR searches they are obliged to make reasonable efforts to inform ETSI of any Essential IPRs of which they become aware (see article 4 of the ETSI IPR Policy [i.1]).

The present document will be maintained by the ETSI Secretariat and further editions will be issued as, and when, necessary. Any errors in the information contained in the present document, or any additional information concerning Essential IPRs, of which readers of the present document become aware, should be notified to the ETSI Secretariat (for the attention of the Legal Service).

NOTE: The present document is also available at <a href="https://www.etsi.org/intellectual-property-rights">https://www.etsi.org/intellectual-property-rights</a> [i.4].

# Modal verbs terminology

In the present document "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

# 1 Scope

The present document identifies IPRs, particularly patents and patent applications, which have been notified to ETSI as being Essential, or potentially Essential, to ETSI Standards or Technical Specifications.

Unless otherwise specified, all IPRs included into the present document have been notified to ETSI, with an undertaking from the owner to grant licences according to the terms and conditions of article 6.1 of the ETSI IPR Policy [i.1], Annex 6 of the ETSI Rules of Procedure [i.3].

#### 2 References

#### 2.1 Normative references

Normative references are not applicable in the present document.

#### 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] ETSI IPR Policy.

NOTE: The ETSI IPR Policy can be found at <a href="https://portal.etsi.org/Resources/ETSI-Directives">https://portal.etsi.org/Resources/ETSI-Directives</a>.

[i.2] ETSI Guide on IPRs.

NOTE: The ETSI Guide on IPRs is to be found at <a href="https://portal.etsi.org/Resources/ETSI-Directives">https://portal.etsi.org/Resources/ETSI-Directives</a>.

[i.3] ETSI Rules of Procedure (RoP).

NOTE: The ETSI Rules of Procedure (RoP) can be found at <a href="https://portal.etsi.org/Resources/ETSI-Directives">https://portal.etsi.org/Resources/ETSI-Directives</a>.

[i.4] ETSI IPR database.

NOTE: Notification to ETSI of Essential or potentially Essential IPRs should be made using the ETSI IPR database at <a href="https://ipr.etsi.org">https://ipr.etsi.org</a>. Additional information can be found at <a href="https://www.etsi.org/intellectual-property-rights">https://ipr.etsi.org</a>. Additional information can be found at <a href="https://www.etsi.org/intellectual-property-rights">https://www.etsi.org/intellectual-property-rights</a>.

[i.5] Declare your IPRs to ETSI.

NOTE: A step by step explanation for filling out the above mentioned forms is to be found in the <a href="https://www.etsi.org/intellectual-property-rights/faqs">https://www.etsi.org/intellectual-property-rights</a>. Additional information can be found at <a href="https://www.etsi.org/intellectual-property-rights">https://www.etsi.org/intellectual-property-rights</a>.

# 3 Definition of terms, symbols and abbreviations

#### 3.1 Terms

For the purposes of the present document, the following terms apply:

The terms "ESSENTIAL", "IPR", "STANDARD" and "TECHNICAL SPECIFICATION" given below are defined in the "Definitions" annex of the ETSI IPR Policy [i.1].

**ESSENTIAL:** as applied to IPR means that it is not possible on technical (but not commercial) grounds, taking into account normal technical practice and the state of the art generally available at the time of standardization, to make, sell, lease, otherwise dispose of, repair, use or operate EQUIPMENT or METHODS which comply with a STANDARD without infringing that IPR.

For the avoidance of doubt in exceptional cases where a STANDARD can only be implemented by technical solutions, all of which are infringements of IPRs, all such IPRs shall be considered ESSENTIAL.

NOTE: In practical terms, the existence of an Essential IPR makes it necessary to have a licence in order to exploit the standard concerned.

**IPR:** shall mean any intellectual property right conferred by statute law including applications therefore other than trademarks.

For the avoidance of doubt rights relating to get up, confidential information, trade secrets or the like are excluded from the definition of IPR.

**IPR licensing declaration:** declaration to the effect that the IPR owner declares that he is prepared to grant licences on fair, reasonable and non-discriminatory terms, in accordance with article 6.1 and comply with clause 6.1 bis of the ETSI IPR Policy

**notified:** means any IPR information of which ETSI has been formally notified by the owner of the IPR or, any IPR information of which ETSI has become aware, pursuant to the IPR Policy

**STANDARD:** shall mean any standard adopted by ETSI including options therein or amended versions and shall include European Standards (ENs), ETSI standards (ESs), Common Technical Regulations (CTRs) which are taken from ENs and including drafts of any of the foregoing, and documents made under the previous nomenclature, including ETSs, I-ETSs, parts of NETs and TBRs, the technical specifications of which are available to all MEMBERS, but not including any standards, or parts thereof, not made by ETSI.

The date on which a STANDARD is considered to be adopted by ETSI for the purposes of this POLICY shall be the date on which the technical specification of that STANDARD was available to all MEMBERS.

**TECHNICAL SPECIFICATION:** shall mean any Technical Specification (TS) adopted by ETSI including options therein or amended version including drafts, the Technical Specifications of which are available to all MEMBERS, but not including any technical specifications, or parts thereof, not made by ETSI.

The date on which a TECHNICAL SPECIFICATION is considered to be adopted by ETSI for the purposes of this POLICY shall be the date on which the technical content of that TECHNICAL SPECIFICATION was available to all MEMBERS.

**3GPP standards:** all standards issued by ETSI in relation to 3<sup>rd</sup> Generation Partnership Project (3GPP)

NOTE: From https://portal.etsi.org/home, click on the "3GPP" tab.

BRAN standards: all standards issued by ETSI Project Broadband Radio Access Networks (BRAN)

NOTE: From <a href="https://portal.etsi.org/home">https://portal.etsi.org/home</a>, click on the "BRAN" tab.

DAB standards: all standards issued by ETSI in relation to Digital Audio Broadcasting (DAB)

NOTE: See <a href="https://www.etsi.org/technologies/broadcast">https://www.etsi.org/technologies/broadcast</a>.

**DCS 1800 standards:** all standards issued by ETSI in relation to European Cellular Digital - Global System for Mobile Communication - DCS 1800 extensions

NOTE: From https://portal.etsi.org/home, click on the "3GPP" tab.

**DECT/GSM interworking standards:** all standards issued by ETSI in relation to interworking between DECT and GSM

**DECT standards:** all standards issued by ETSI in relation to Digital Enhanced Cordless Telephone (DECT), previously known as Digital Enhanced Cordless Telephone (DECT)

NOTE: From <a href="https://portal.etsi.org/home">https://portal.etsi.org/home</a>, click on the "DECT" tab.

**DTM standards:** all standards issued by ETSI in relation to Dynamic synchronous Transfer Mode (DTM)

NOTE: SPAN Technical Body has closed. See <a href="https://portal.etsi.org/tb/closed\_tb/span.asp">https://portal.etsi.org/tb/closed\_tb/span.asp</a>.

All SPAN standards can now be found under TISPAN.

**DVB standards:** all standards issued by ETSI in relation to Digital Video Broadcasting (DVB)

NOTE: See <a href="https://www.etsi.org/technologies/broadcast">https://www.etsi.org/technologies/broadcast</a>.

ERMES standards: all standards issued by ETSI in relation to European Radio Messaging System (ERMES)

NOTE: From https://portal.etsi.org/home, click on the "ERM" tab.

GPRS standards: all standards issued by ETSI in relation to General Packet Radio Service (GPRS)

NOTE: From https://portal.etsi.org/home, click on the "3GPP" tab.

**GSM standards:** all standards issued by ETSI in relation to European Cellular Digital - Global System for Mobile Communication (GSM)

NOTE: From <a href="https://portal.etsi.org/home">https://portal.etsi.org/home</a>, click on the "3GPP" tab.

HDSL standards: all standards issued by ETSI in relation to High bit rate Digital Subscriber Line (HDSL)

NOTE: TM (TM 06) Technical Body has closed. See <a href="https://portal.etsi.org/tb/closed\_tb/oldtbhome.asp">https://portal.etsi.org/tb/closed\_tb/oldtbhome.asp</a>.

**HIPERLAN standards:** all standards issued by ETSI in relation to High Performance Radio Local Area Network (HIPERLAN)

ISDN standards: all standards issued by ETSI in relation to Integrated Services Digital Network (ISDN)

NOTE: SPAN Technical Body has closed. See <a href="https://portal.etsi.org/tb/closed\_tb/span.asp">https://portal.etsi.org/tb/closed\_tb/span.asp</a>.

Lawful Interception (LI) standards: all standards issued by ETSI in relation to Lawful Interception (LI)

NOTE: See <a href="https://portal.etsi.org/TB-SiteMap/LI/Summary">https://portal.etsi.org/TB-SiteMap/LI/Summary</a>.

PSTN standards: all standards issued by ETSI in relation to Public Switched Telephone Network (PSTN)

NOTE: AT Technical Body has closed. See <a href="https://portal.etsi.org/tb/closed">https://portal.etsi.org/tb/closed</a> tb/oldtbhome.asp.

SDSL standards: all standards issued by ETSI in relation to Symmetrical Digital Subscriber Line (SDSL)

NOTE: TM (TM 06) Technical Body has closed. See <a href="https://portal.etsi.org/tb/closed\_tb/oldtbhome.asp">https://portal.etsi.org/tb/closed\_tb/oldtbhome.asp</a>.

STAG standards: all standards issued by ETSI in relation to Security Techniques Advisory Group (STAG)

NOTE: SEC Technical Body has closed. See <a href="https://portal.etsi.org/tb/closed\_tb/oldtbhome.asp">https://portal.etsi.org/tb/closed\_tb/oldtbhome.asp</a>.

Television systems standards: all standards issued by ETSI in relation to TV broadcasting systems

NOTE: From https://portal.etsi.org/home, click on the "BROADCAST" tab.

**TETRA standards:** all standards issued by ETSI in relation to Terrestrial Trunked Radio (TETRA), previously known as Trans-European Trunked Radio (TETRA)

NOTE: See <a href="https://www.etsi.org/technologies/tetra">https://www.etsi.org/technologies/tetra</a>.

TFTS standards: all standards issued by ETSI in relation to Terrestrial Flight Telecommunication System (TFTS)

NOTE: From <a href="https://portal.etsi.org/home">https://portal.etsi.org/home</a>, click on the "ERM" tab.

**TIPHON standards:** all standards issued by ETSI in relation to Telecommunications And Internet Protocol Harmonization Over Networks (TIPHON)

NOTE: TIPHON Technical Body has closed. See <a href="https://portal.etsi.org/tb/closed-tb/tiphon.asp">https://portal.etsi.org/tb/closed-tb/tiphon.asp</a>.

All TIPHON standards can now be found under TISPAN.

UMTS standards: all standards issued by ETSI in relation to Universal Mobile Telecommunications System (UMTS)

NOTE: From <a href="https://portal.etsi.org/home">https://portal.etsi.org/home</a>, click on the "3GPP" tab.

VDSL standards: all standards issued by ETSI in relation to Very high speed Digital Subscriber Line (VDSL)

NOTE: TM (TM 06) Technical Body has closed. See <a href="https://portal.etsi.org/tb/closed\_tb/oldtbhome.asp">https://portal.etsi.org/tb/closed\_tb/oldtbhome.asp</a>.

#### 3.2 Symbols

Void.

#### 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AF	AFGHANISTAN
OA	AFRICAN INTELLECTUAL PROPERTY ORGANIZATION
AP	AFRICAN REGIONAL INDUSTRIAL PROPERTY ORGANIZATION
AL	ALBANIA
DZ	ALGERIA
AS	AMERICAN SAMOA
AD	ANDORRA
AO	ANGOLA
AG	ANTIGUA AND BARBUDA
AR	ARGENTINA
AM	ARMENIA
AW	ARUBA
AU	AUSTRALIA
AT	AUSTRIA
ΑZ	AZERBAIJAN
BS	BAHAMAS
ВН	BAHRAIN
BD	BANGLADESH
BB	BARBADOS
BY	BELARUS
BE	BELGIUM
BZ	BELIZE
BJ	BENIN
BM	BERMUDA
BT	BHUTAN
BO	BOLIVIA
BA	BOSNIA AND HERZEGOVINA
BW	BOTSWANA
BR	BRAZIL
BN	BRUNEI DARUSSALAM
BG	BULGARIA

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BF
            BURKINA FASO
ΒI
            BURUNDI
KH
            CAMBODIA
            CAMEROON
CM
CA
            CANADA
CV
            CAPE VERDE
CF
            CENTRAL AFRICAN REPUBLIC
TD
            CHAD
CL
            CHILE
CN
            CHINA
CO
            COLOMBIA
            COMOROS
KM
            CONGO
CG
            COOPERATION COUNCIL FOR ARAB STATES OF THE GULF
GC
            COSTA RICA
CR
            CÔTE D'IVOIRE
CI
HR
            CROATIA
CU
            CUBA
CY
            CYPRUS
CZ
            CZECH REPUBLIC
DK
            DENMARK
DJ
            DJIBOUTI
DM
            DOMINICA
            DOMINICAN REPUBLIC
DO
EC
            ECUADOR
EG
            EGYPT
SV
            EL SALVADOR
GQ
            EQUATORIAL GUINEA
ER
            ERITREA
EE
            ESTONIA
ET
            ETHIOPIA
EA
            EURASIAN PATENT OFFICE
EP
            EUROPEAN PATENT OFFICE
            FAROE ISLANDS
FO
FJ
            FIJI
FI
            FINLAND
FR
            FRANCE
MK
            FYROM
GA
            GABON
GM
            GAMBIA
GE
            GEORGIA
            GERMANY
DE
GH
            GHANA
            GIBRALTAR
GI
GR
            GREECE
GL
            GREENLAND
GD
            GRENADA
GP
            GUADELOUPE
GU
            GUAM
GT
            GUATEMALA
GN
            GUINEA
GW
            GUINEA-BISSAU
GY
            GUYANA
HT
            HAITI
            HONDURAS
HN
HK
            HONG KONG
HU
            HUNGARY
IS
            ICELAND
IN
            INDIA
ID
            INDONESIA
```

IRAN (ISLAMIC REPUBLIC OF)

**IRAQ** 

IR

IQ

IE IRELAND
IL ISRAEL
IT ITALY
JM JAMAICA
JP JAPAN
JO JORDAN
KZ KAZAKHSTAN

KE KENYA

KP KOREA (DEM. PEOPLE'S REP. OF)

KR KOREA (REPUBLIC OF)

KW KUWAIT KG KYRGYZSTAN

LA LAO PEOPLE'S DEM. REP.

LV LATVIA
LB LEBANON
LS LESOTHO
LR LIBERIA

LI LIECHTENSTEIN
LT LITHUANIA
LU LUXEMBOURG

MO MACAU

MG MADAGASCAR
MW MALAWI
MY MALAYSIA
MV MALDIVES
ML MALI
MT MALTA

MQ MARTINIQUE
MR MAURITANIA
MU MAURITIUS
YT MAYOTTE
MX MEXICO

MD MOLDOVA (REPUBLIC OF)

MC **MONACO** MN **MONGOLIA** ME **MONTENEGRO** MS **MONTSERRAT** MA **MOROCCO MOZAMBIQUE** MZMM **MYANMAR** NA **NAMIBIA** NP **NEPAL** 

NL NETHERLANDS

AN NETHERLANDS ANTILLES

NC NEW CALEDONIA
NZ NEW ZEALAND
NI NICARAGUA
NE NIGER

NG NIGERIA
NO NORWAY
OM OMAN
PK PAKISTAN
PW PALAU
PA PANAMA

PG PAPUA NEW GUINEA

PY PARAGUAY

WO PATENT COOPERATION TREATY

PE PERU
PH PHILIPPINES
PL POLAND
PT PORTUGAL
PR PUERTO RICO

QA **QATAR** RE RÉUNION RO **ROMANIA RUSSIAN FEDERATION** RU RW **RWANDA** WS **SAMOA** SMSAN MARINO SA SAUDI ARABIA SN **SENEGAL** RS **SERBIA** SC **SEYCHELLES** SL SIERRA LEONE SINGAPORE SG SK **SLOVAKIA SLOVENIA** SI SO **SOMALIA** ZA **SOUTH AFRICA** ES **SPAIN** LK SRI LANKA **SUDAN** SD SR **SURINAME** SZ **SWAZILAND** SE **SWEDEN** CH **SWITZERLAND** SYSYRIAN ARAB REPUBLIC TW TAIWAN, PROVINCE OF CHINA TJ **TAJIKISTAN** TZTANZANIA, UNITED REPUBLIC OF TH **THAILAND** TL TIMOR-LESTE TG **TOGO** TK **TOKELAU** TO **TONGA** TRINIDAD AND TOBAGO TT TN **TUNISIA** TR **TURKEY** TM **TURKMENISTAN** TV **TUVALU** UG **UGANDA UKRAINE** UA UNITED ARAB EMIRATES ΑE UNITED KINGDOM GB**UNITED STATES** US UY **URUGUAY** UZ**UZBEKISTAN** VU **VANUATU** VE **VENEZUELA** VN VIET NAM YE YEMEN YUGOSLAVIA YU ZAMBIA ZM

### 4 Notified IPRs

**ZIMBABWE** 

ZW

The Licensing Declarations given for the IPRs are contained in archive sr\_000314v023101p0.zip which accompanies the present document.

ETSI has not checked the validity of the information, nor the relevance of the identified IPRs to the Standards or Technical Specifications and cannot confirm, or deny, that the IPRs are, in fact, essential, or potentially essential. No investigation, or IPR searches, have been carried out by ETSI and therefore no guarantee can be given concerning the existence of other IPRs which are, or may become, essential.

#### 4.1 Notifications

Essential, or potentially essential, IPRs in respect of which a notification followed by a Licensing Declaration has been given by the IPR owner and for which licences are available on fair, reasonable and non-discriminatory terms, in accordance with article 6.1 and comply with clause 6.1 bis of the ETSI IPR Policy [i.1], annex 6 of the ETSI Rules of Procedure [i.3]. The ETSI IPR Policy can be found at <a href="https://portal.etsi.org/Resources/ETSI-Directives">https://portal.etsi.org/Resources/ETSI-Directives</a>.

NOTE: Notification to ETSI of Essential or potentially Essential IPRs should be made using the ETSI IPR database at <a href="https://ipr.etsi.org">https://ipr.etsi.org</a>. Additional information can be found at <a href="https://www.etsi.org/intellectual-property-rights">https://ipr.etsi.org</a>. Additional information can be found at <a href="https://www.etsi.org/intellectual-property-rights">https://www.etsi.org/intellectual-property-rights</a> [i.4], [i.2] and [i.5].

#### 4.1.1 List of Project Names used in the ETSI IPR Database

3GP-DASH; 3GP-DASH-Release-10; 3GP-DASH-Release-11; 3GPP; 3GPP 5G NR; 3GPP SAE; 3GPP-CN; 3GPP-CT; 3GPP-EUTRAN; 3GPP-GERAN; 3GPP-radio; 3GPP-Release-10; 3GPP-Release-11; 3GPP-Release-12; 3GPP-Release-13; 3GPP-Release-14; 3GPP-Release-15; 3GPP-Release-16; 3GPP-Release-17; 3GPP-Release-18; 3GPP-Release-1997; 3GPP-Release-1998; 3GPP-Release-1999; 3GPP-Release-4; 3GPP-Release-5; 3GPP-Release-6; 3GPP-Release-7; 3GPP-Release-9; 3GPP-SA; 3GPP-T; 3GPP-UTRAN; 5G; AHS Release 9; AlgUEA2; AMRWB; AMRWB+; BACKBONE; BLINK; BRAN; Broadband Access; CAMEL; CAT; CH; Cheaper Internet; CLIK; CNTRSP; CRS; CSICS; CSIterm; CTM2; DAB; DASH Release 10; DASH Release 11; DASH Release 9; DCS 1800; DECT; DECT CI; DECT CTM; DECT GSM-IW; DECT ISDN-IW; DIIS; DMR; dPMR; DRM; DTM; DTS; DVB-H; DVB-H; DVB-T2; E2EMSPM; e-accessibility; eANDSF; eCall Phase2; ECI; e-commerce; EData; EDCH; EDCHTDD: eEurope: eEurope implementation guide: eEurope2005 Broadband: eEurope2005 Security: EHNB: eICIC LTE; Electronic Signatures; EMC1; eMPS; EMTEL; ERM; ERMES; e-transport; ETSI M2M; ETSI RRS; EVS\_codec; Family SL; FGE; FLO; FS\_CNO; FS\_COMP\_LTE; FS\_CSN; FS\_CSoPS; FS\_EHNB\_enh; FS Energy LTE; FS HetNet eMOB LTE; FS HNB Sec; FS HSDPA MP TX; FS iFire; FS IMS P2P; FS\_IMSconf; FS\_IS\_DASH; FS\_IVCS; FS\_LC\_MTC\_LTE; FS\_LTE\_mobRelay; FS\_LTE\_TDD\_eIMTA; FS\_M2M; FS\_MAPIM; FS\_MLTICAST-IMS; FS\_MMSC; FS\_MODAI; FS\_MTCe; FS\_NGN\_min\_drive-tests; FS\_NOVES; FS\_OAM\_LTE\_SAE; FS\_OAM-SON-HNB; FS\_PP; FS\_PWS; FS\_RAN\_LTEA; FS\_RAN-DCHS; FS\_RAN-HNBeNB; FS\_RAN-LTEmob; FS\_SaMOG; FS\_SM3GWLAN; FS\_SPIA\_IDC; FS\_SSO\_APS; FS\_SSO\_Int; FS\_SSO\_Int\_Sec; FS\_UM2M; FS\_VAS4SMS; FS\_vSRVCC; GAAI; GBA-IdM; GBAPush; GEM 1.0; GEM 1.2; GEM 1.2.2; GERAN; GERAN Release 6; GERAN Release 7; GERAN Release 8; GERAN Release 9; GMDSS; GMPRS; GMR; GPRS; GSM; GSM Release 4; GSM Release 6; GSM Release 7; GSM Release 98; GSM Release 99; GTT; HCI; HIPERACCESS; HIPERLAN/1; HIPERLAN/2; HIPERMAN; HNB\_HENB\_mob\_enh; Home fibering system; HSDPA; HSPA+; HTTP\_SDS; Hybrid Broadcast Broadband TV; ICSRA; IMCC; IMCC\_ATS; IMCC\_BASE; IMCC\_ISDN/DECIW; IMCC\_ISDN/GSMIW; IMCC\_ITAEGT; IMCC\_PR-1; IMS; IMS\_AGCF; IMS\_EMER\_GPRS\_EPS; IMS\_PSS\_MBMS\_US; IMS\_RP; IMSProtoc; IMS-UICC-S; IPCablecom; IPv4IMS; IRTSD-CS\_IMS; IRTSD-IMSCS; ISDN; ISM; ITS; KeyEstUTerm; L\_Band\_LTE\_ATC\_MSS; Lawful Interception; LCLS-CN; LCS; LCS\_LTE\_EPS; LCS\_LTE-NBPS; LCS-128 Pos; LibSec; LPP Release 10; LPR; LTE; LTE/EPS Release 9; LTE\_CA; LTE\_Relay; LTEimp; M2M; MBMS; MCC\_3G\_reporting; MCC\_GSM\_reporting; M-COMM; MDT\_UMTSLTE; MEDIASEC; MESS5; MHEG-5 Broadcast Profile; MHP 1.0; MHP 1.1; MHP 1.2.2; MIMO; MIW-IMS; MMB; MMB Release 1; MMS4; MOSAP; Mp; NGN; NGN5: Lawful Interception; NGN-R1; NGN-R2; NGN-R3; oneM2M Release 1; oneM2M Release 2; O-RAN; PCC; PLT; PNM; RANFS-Evo; RANFS-HSPAEvo; RANFS-MBMSImp; RES; SAE; SAES; SAES Ph2; SAES2; SDH; SDH NETWORK ELEMENTS; SDR; SEC16; SEC1-SC; SEC-IMS; SES; SFR; SIMTC; Smart Card; SMSIP; SMSMI; SON; Speech Recognition; SRD; SRSES; STAG; TD-SCDMA; TEI; TEI10; TEI4; Television systems; TETRA; TETRA\_DM; TETRA\_V+D; TFTS; TG; TIPHON; TIPHON\_R3; TISPAN; TV Anytime; TV-Anytime; UICC; UICC1; UMTS; UMTS FDD; UMTS TDD; UTRA; UTRAN; V5 Interface; VAS4SMS; WCDMA; WLAN; xDSL.

- 4.2 Void
- 4.3 Void

# History

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