



STANDARDIZAREA NAȚIONALĂ

STANDARDE APROBATE

Standardele române de mai jos au fost aprobate în luna **februarie 2021**. Standardele române originale sunt notate cu (E). Standardele europene și internaționale sunt adoptate ca standarde române prin metoda versiunii române (T), metoda filei de confirmare (FC) sau metoda notei de confirmare (A). Sub indicativul standardului este indicat numărul comitetului tehnic (CT) responsabil. Pentru standardele adoptate prin metoda filei de confirmare sau metoda notei de confirmare, textul standardului nu este publicat în versiune română. Versiunile originale ale acestor standarde pot fi procurate de la Asociația de Standardizare din România.

În această rubrică sunt cuprinse, de asemenea, amendamente și erate ale standardelor române.

În cazul în care un standard aprobat înlocuiește și anulează unul sau mai multe standarde existente, indicativul/indicativele acestora sunt indicate după titlul standardului respectiv.

Informații privind standardele anulate sunt date în rubrica STANDARDE ANULATE.

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SR EN ISO 8407:2021

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Coroziunea metalelor și aliajelor. Îndepărtarea produșilor de coroziune de pe epruvetele pentru încercarea la coroziune

Inlocuieste SR EN ISO 8407:2014

83.080.20 Materiale termoplastice

CT 108

SR EN ISO 21304-2:2021

A

Materiale plastice. Materiale pentru injecție și extrudare pe bază de polietilenă de masă moleculară foarte înaltă (PE-UHMV). Partea 2: Prepararea epruvetelor și determinarea proprietăților

Inlocuieste SR EN ISO 11542-2:2003

83.140.99 Alte produse din cauciuc și materiale plastice

CT 108

SR EN 12613:2021

A

Dispozitive de avertizare cu caracteristici vizuale, de materiale plastice, pentru cabluri și conducte îngropate

Inlocuieste SR EN 12613:2009

87.040 Vopsele și emailuri

CT 338

SR EN ISO 21545:2021

A

Vopsele și lacuri. Determinarea sedimentării

CT 338

SR EN ISO 22518:2021

A

Vopsele și lacuri. Determinarea solvenților în materiale de acoperire diluabile cu apă. Metodă gaz-cromatografică

CT 338

SR EN ISO 22553-5:2021

A

Vopsele și lacuri. Acoperiri prin electrodepunere. Partea 5: Determinarea reziduuului de sită

CT 338

SR EN ISO 20266:2021

A

Vopsele și lacuri. Determinarea clarității imaginii (gradul de claritate al imaginii reflectate sau transmise)

CT 338

SR EN ISO 23321:2021

A

Solvenți pentru vopsele și lacuri. Apă demineralizată pentru aplicații industriale. Specificație și metode de încercare

CT 338

SR EN ISO 22516:2021

A

Vopsele și lacuri. Determinarea practică a conținutului de materie nevolatilă și volatilă în timpul aplicării

CT 338

SR EN ISO 22553-1:2021

A

Vopsele și lacuri. Acoperiri prin electrodepunere. Partea 1: Vocabular

CT 338

SR EN ISO 22970:2021

A

Vopsele și lacuri. Metodă de încercare pentru evaluarea aderenței adezivilor elastici pe acoperiri prin încercarea la jupuire, încercarea de rezistență la jupuire și încercarea de rezistență la forfecare la tracțiune cu efort suplimentar prin supunere sub condens sau catapasmă

CT 338

SR EN ISO 22969:2021

A

Vopsele și lacuri. Determinarea reflectanței solare

CT 338

SR EN ISO 22557:2021

A

Vopsele și lacuri. Încercare la zgâriere prin utilizarea unui stilou cu armare cu arc

CT 338**SR EN ISO 16474-3:2021****A**

Vopsele și lacuri. Metode de expunere la surse de lumină de laborator. Partea 3: Lămpi fluorescente UV

Inlocuieste SR EN ISO 16474-3:2014

91.010.99 Alte aspecte**CT 335****SR CEN/TR 16970:2021****T**

Sustenabilitatea lucrărilor de construcție. Linii directoare pentru aplicarea EN 15804

91.060.50 Uși și ferestre**CT 318****SR EN 12604+A1:2021****A**

Uși și porți pentru uz industrial, comercial și pentru garaje. Aspecte mecanice. Cerințe și metode de încercare

Inlocuieste SR EN 12604:2018

91.120.20 Acustică în clădiri. Izolație fonică**CT 276****SR EN ISO 717-2:2021****A**

Acustică. Evaluarea izolării acustice în clădiri și a elementelor de construcții. Partea 2: Izolare la zgomot de impact

Inlocuieste SR EN ISO 717-2:2013

CT 276**SR EN ISO 717-1:2021****A**

Acustică. Evaluarea izolării acustice în clădiri și a elementelor de construcții. Partea 1: Izolare la zgomot aerian

Inlocuieste SR EN ISO 717-1:2013

CT 276**SR EN 16205:2021****A**

Măsurarea în laborator a zgomotului de pași pe planșee

Inlocuieste SR EN 16205+A1:2018

CT 276**SR EN ISO 12999-1:2021****A**

Acustică. Determinarea și aplicarea incertitudinilor de măsurare în acustica clădirilor. Partea 1: Izolare acustică

Inlocuieste SR EN ISO 12999-1:2014

91.140.60 Sisteme de alimentare cu apă**CT 108****SR EN ISO 15876-5:2017/A1:2021****A**

Sisteme de conducte de materiale plastice pentru instalațiile de apă caldă și rece. Polibutenă (PB) Partea 5: Aptitudinea de utilizare a sistemului. Amendament 1

CT 108**SR EN ISO 15876-2:2017/A1:2021****A**

Sisteme de conducte de materiale plastice pentru instalațiile de apă caldă și rece. Polibutenă (PB) Partea 2: Țevi. Amendament 1

CT 108**SR EN ISO 22391-2:2010/A1:2021****A**

Sisteme de conducte de materiale plastice pentru instalații de apă caldă și rece. Polietilenă de rezistență înaltă la temperatură (PE-RT). Partea 2: Țevi. Amendament 1

CT 108**SR EN ISO 15876-3:2017/A1:2021****A**

Sisteme de conducte de materiale plastice pentru instalațiile de apă caldă și rece. Polibutenă (PB) Partea 3: Fitinguri. Amendament 1

CT 108**SR EN ISO 15875-2:2004/A2:2021****A**

Sisteme de conducte de materiale plastice pentru instalațiile de apă caldă și rece. Polietilenă reticulată (PE-X). Partea 2: Țevi. Amendament 2

CT 108**SR EN ISO 15875-3:2004/A1:2021****A**

Sisteme de conducte de materiale plastice pentru instalațiile de apă caldă și rece. Polietilenă reticulată (PE-X). Partea 3: Fitinguri. Amendament 1

CT 108**SR EN ISO 15877-2:2009/A2:2021****A**

Sisteme de conducte de materiale plastice pentru instalațiile de apă caldă și rece. Policlorură de vinil clorurată (PVC-C). Partea 2: Țevi. Amendament 2

CT 108**SR EN ISO 15875-5:2004/A1:2021****A**

Sisteme de canalizare de materiale plastice pentru instalațiile de apă caldă și rece. Polietilenă reticulată (PE-X). Partea 5: Aptitudinea de utilizare a sistemului. Amendament 1

CT 108**SR EN ISO 22391-5:2010/A1:2021****A**

Sisteme de conducte de materiale plastice pentru instalații de apă caldă și rece. Polietilenă de rezistență înaltă la temperatură (PE-RT). Partea

5: Aptitudine de utilizare a sistemului.
Amendament 1

CT 108

SR EN ISO 15877-5:2009/A2:2021

A

Sisteme de conducte de materiale plastice pentru instalațiile de apă caldă și rece. Policlorură de vinil clorurată (PVC-C). Partea 5: Aptitudinea de utilizare a sistemului. Amendament 2

CT 108

SR EN ISO 22391-3:2010/A1:2021

A

Sisteme de conducte de materiale plastice pentru instalații de apă caldă și rece. Polietilenă de rezistență înaltă la temperatură (PE-RT). Partea 3: Racorduri. Amendament 1

**93.025 Sisteme de transport exterioare
pentru apă**

CT 108

SR EN ISO 22391-5:2010/A1:2021

A

Sisteme de conducte de materiale plastice pentru instalații de apă caldă și rece. Polietilenă de rezistență înaltă la temperatură (PE-RT). Partea 5: Aptitudine de utilizare a sistemului. Amendament 1

93.030 Sisteme de canalizare externe

CT 186

SR EN 14654-3:2021

A

Rețele de drenaj și de canalizare în exteriorul clădirilor. Managementul și controlul activităților. Partea 3: Curățare
Inlocuieste SR EN 14654-1:2006

CT 186

SR EN 14654-1:2021

A

Rețele de drenaj și de canalizare în exteriorul clădirilor. Managementul și controlul activităților. Partea 1: Cerințe generale

Inlocuieste SR EN 14654-1:2014

93.080.01 Ingineria drumurilor în general

CT 187

SR 1848-1:2011/A91:2021

E

Semnalizare rutieră. Indicatoare și mijloace de semnalizare rutieră. Partea 1: Clasificare, simboluri și amplasare

CT 187

SR 1848-7:2015/A91:2021

E

Semnalizare rutieră. Marcaje rutiere

97.080 Dispozitive de curățat

CT 201

SR EN 1829-1:2021

A

Mașini cu jet de apă de înaltă presiune. Cerințe de securitate. Partea 1: Mașini
Inlocuieste SR EN 1829-1:2010

CT 238

SR EN IEC/ASTM 62885-7:2021

A

Aparate de curățat suprafețe. Partea 7: Roboți de curățare uscată pentru uz casnic. Metode de măsurare a performanțelor
Inlocuieste SR EN 62929:2015

97.130.20 Aparate de răcit comerciale

CT 147

SR EN ISO 22043:2021

A

Congelatoare pentru înghețată. Clasificare, cerințe și condiții de încercare
Inlocuieste SR EN 16901:2017

STANDARDE ANULATE

Standardele române de mai jos au fost anulate în luna februarie 2021, fie prin înlocuire, fie printr-o decizie de anulare.

Pentru standardele anulate prin înlocuire sunt precizate și standardele înlocuitoare.

01.040.19 Încercări (Vocabulare)**SR EN 16018:2012****A**

Examinări nedistructive. Terminologie. Termeni utilizați la examinarea prin ultrasunete cu traductor multi-element cu comandă de fază

Inlocuit prin SR EN ISO 23243:2021

03.220.01 Transport în general**SR EN ISO 24014-1:2016****T**

Transport public. Sistem interoperabil de gestionare a costului călătoriei. Partea 1: Arhitectură

Inlocuit prin SR EN ISO 24014-1:2021

11.040.10 Echipament pentru anestezie, respirație și reanimare**SR EN ISO 80601-2-55:2012****A**

Echipament electromedical. Partea 2-55: Cerințe particulare pentru securitate și performanțe de bază ale monitoarelor cu gaz pentru respirație

Inlocuit prin SR EN ISO 80601-2-55:2018

13.320 Sisteme de alarmă și de alertare**SR EN 50291-1:2011/A1:2013****A**

Aparatură electrică pentru detectarea monoxidului de carbon în locuri de uz casnic. Partea 1: Metode de încercare și cerințe de performanță

Inlocuit prin SR EN 50291-1:2019

SR EN 12613:2009**NCT**

Dispozitive de avertizare cu caracteristici vizuale, din materiale plastice, pentru cabluri și conducte îngropate

Inlocuit prin SR EN 12613:2021

SR EN 50291-1:2011**A**

Aparatură electrică pentru detectarea monoxidului de carbon în locuri de uz casnic. Partea 1: Metode de încercare și cerințe de performanță

Inlocuit prin SR EN 50291-1:2019

17.140.20 Zgomot emis de mașini și echipamente**SR EN ISO 9902-6:2003/A1:2009****NCT**

Mașini pentru industria textilă. Cod de încercare a zgomotului. Partea 6: Mașini pentru producția de țesături. Amendament 1

Inlocuit prin SR EN ISO 9902-6:2021

SR EN ISO 9902-6:2003**T**

Mașini pentru industria textilă. Cod de încercare a zgomotului. Partea 6: Mașini pentru producția de țesături

Inlocuit prin SR EN ISO 9902-6:2021

SR EN ISO 9902-6:2003/A2:2014**NCT**

Mașini pentru industria textilă. Cod de încercare a zgomotului. Partea 6: Mașini pentru producția de țesături. Amendament 2

Inlocuit prin SR EN ISO 9902-6:2021

17.220 Electricitate. Magnetism. Măsurări electrice și magnetice**SR EN 62056-6-2:2017****A**

Schimb de date de măsurare a energiei electrice. Suită DLMS/COSEM. Partea 6-2: Clase de interfață COSEM

Inlocuit prin SR EN IEC 62056-6-2:2018

17.220.01 Electricitate. Magnetism. Aspecte generale**17.220.20 Măsurări de mărimi electrice și magnetice****17.220.99 Alte standarde referitoare la electricitate și magnetism****SR EN 61125:2001/A1:2005****FC**

Lichide electroizolante neutilizate pe bază de hidrocarburi. Metode de încercare pentru evaluarea stabilității la oxidare

Inlocuit prin SR EN IEC 61125:2018

SR EN 61340-4-5:2005**FCT**

Electrostatică. Partea 4-5: Metode de încercare standardizate pentru aplicații specifice. Metode de caracterizare a protecției electrostatice a încălțămintei și pardoselii în raport cu o persoană

Inlocuit prin SR EN IEC 61340-4-5:2018

19.040 Încercări de mediu**SR EN 60068-3-5:2003****T**

Încercări de mediu. Partea 3-5: Documentație ajutătoare și ghid. Confirmarea performanțelor camerelor de încercare la temperatură

Inlocuit prin SR EN IEC 60068-3-5:2018

SR EN 60068-3-6:2003 **T**
Încercări de mediu. Partea 3-6: Documentație
ajutătoare și ghid. Confirmarea performanțelor
camerelor de încercare la temperatură/umiditate
Inlocuit prin SR EN IEC 60068-3-6:2018

19.100 Încercări nedistructive
SR EN 16018:2012 **A**
Examinări nedistructive. Terminologie. Termeni utilizați
la examinarea prin ultrasunete cu traductor multi-
element cu comandă de fază
Inlocuit prin SR EN ISO 23243:2021

23.020.35 Butelii de gaz
SR EN 15888:2014 **A**
Butelii transportabile pentru gaz. Cadre pentru butelii.
Controale și inspecții periodice
Inlocuit prin SR EN ISO 20475:2021

23.040.60 Flanșe, cuplaje și alte îmbinări
SR EN ISO 27509:2013 **A**
Industria petrolului și gazelor naturale. Conexiuni cu
flanșe compacte cu inel de etanșare IX
Inlocuit prin SR EN ISO 27509:2021

SR EN 14772:2005 **FCT**
Flanșe și îmbinările acestora. Controlul asigurării
calității și încercarea garniturilor conform seriilor de
standarde EN 1514 și EN 12560
Inlocuit prin SR EN 14772:2021

SR EN ISO 27509:2013/AC:2013 **ER**
Industria petrolului și gazelor naturale. Conexiuni cu
flanșe compacte cu inel de etanșare IX
Inlocuit prin SR EN ISO 27509:2021

23.040.70 Furtunuri flexibile
SR EN 12115:2011 **NCT**
Furtunuri și furtunuri cu racorduri la capete, de cauciuc
și materiale termoplastice, pentru substanțe chimice
lichide sau gazoase. Specificație
Inlocuit prin SR EN 12115:2021

**23.040.80 Etanșări pentru țevi și furtunuri
flexibile**
SR EN 1514-2:2015 **T**
Flanșe și îmbinarea lor. Garnituri pentru flanșe
desemnate prin PN. Partea 2: Garnituri spirale pentru
utilizări cu flanșe de oțel
Inlocuit prin SR EN 1514-2+A1:2021

SR EN 14772:2005 **FCT**

Flanșe și îmbinările acestora. Controlul asigurării
calității și încercarea garniturilor conform seriilor de
standarde EN 1514 și EN 12560
Inlocuit prin SR EN 14772:2021

25.040 Sisteme de automatizare industrială
SR EN 62439-5:2010 **A**
Rețele de comunicații industriale. Rețele de
automatizare de înaltă disponibilitate. Partea 5:
Protocol de redundanță cu balize (BRP)
Inlocuit prin SR EN IEC 62439-5:2018

SR EN 62439-3:2013 **A**
Rețele de comunicații industriale. Rețele de
automatizare de înaltă disponibilitate. Partea 3:
Protocol de redundanță paralelă (PRP) și redundanță
transparentă de înaltă disponibilitate (HSR)
Inlocuit prin SR EN IEC 62439-3:2018

**25.040.01 Sisteme de automatizare industrială
în general**

25.040.10 Centre de prelucrare

25.040.20 Mașini cu comandă numerică

25.040.30 Roboți industriali. Manipulatori

**25.040.40 Măsurarea și controlul proceselor
industriale**
SR EN 61804-2:2008 **A**
Blocuri de funcții (FB) pentru comanda proceselor.
Partea 2: Specificația conceptului de bloc de funcții
Inlocuit prin SR EN IEC 61804-2:2018

**25.040.99 Alte sisteme industriale de
automatizare**

25.160.30 Mașini de sudare
SR EN 50505:2009 **A**
Standard de bază destinat pentru evaluarea expunerii
umane la câmpurile electromagnetice de la
echipamentul de sudare prin presiune și procedee
conexe
Inlocuit prin SR EN IEC 62822-3:2018

25.160.40 Materiale de adaos
SR EN 12814-8:2003 **FCT**
Încercări ale îmbinărilor sudate ale semifabricatelor din
materiale termoplastice. Partea 8: Cerințe
Inlocuit prin SR EN 12814-8:2021

SR EN 12814-8:2003/AC:2004 **FCT**

Încercări ale îmbinărilor sudate ale semifabricatelor din materiale termoplastice. Partea 8: Cerințe
Inlocuit prin SR EN 12814-8:2021

SR EN 12814-2:2001 **FCT**
Încercări ale îmbinărilor sudate ale semifabricatelor din materiale termoplastice. Partea 2: Încercarea la tracțiune
Inlocuit prin SR EN 12814-2:2021

27.060.30 Boilere și schimbătoare de căldură
SR EN 14222:2004 **FCT**
Cazane cu țevi de fum executate din oțel inoxidabil
Inlocuit prin SR EN 14222:2021

29.020 Electrotehnică în general
SR EN 60068-3-5:2003 **T**
Încercări de mediu. Partea 3-5: Documentație ajutătoare și ghid. Confirmarea performanțelor camerelor de încercare la temperatură
Inlocuit prin SR EN IEC 60068-3-5:2018

SR EN 60068-3-6:2003 **T**
Încercări de mediu. Partea 3-6: Documentație ajutătoare și ghid. Confirmarea performanțelor camerelor de încercare la temperatură/umiditate
Inlocuit prin SR EN IEC 60068-3-6:2018

29.040.10 Uleiuri electroizolante
SR EN 61125:2001/A1:2005 **FC**
Lichide electroizolante neutilizate pe bază de hidrocarburi. Metode de încercare pentru evaluarea stabilității la oxidare
Inlocuit prin SR EN IEC 61125:2018

SR EN 61125:2001 **T**
Lichide electroizolante neutilizate pe bază de hidrocarburi. Metode de încercare pentru evaluarea stabilității la oxidare
Inlocuit prin SR EN IEC 61125:2018

29.060.20 Cabluri
SR EN 60230:2002 **T**
Încercări la impuls ale cablurilor electrice și accesoriilor acestora
Inlocuit prin SR EN IEC 60230:2018

29.080.20 Treceți izolate
SR EN 62199:2005 **FC**
Treceți izolate pentru aplicații în curent continuu
Inlocuit prin SR EN IEC/IEEE 65700-19-3:2019

29.120.40 Întreruptoare
SR EN 60669-1:2002/A1:2003 **T**
Întreruptoare pentru instalații electrice fixe pentru uz casnic și scopuri similare. Partea 1: Prescripții generale
Inlocuit prin SR EN 60669-1:2018

SR EN 60669-1:2002/A2:2009 **NCT**
Întreruptoare pentru instalații electrice fixe pentru uz casnic și scopuri similare. Partea 1: Prescripții generale
Inlocuit prin SR EN 60669-1:2018

SR EN 60669-1:2002/C91:2005 **E**
Întreruptoare pentru instalații electrice fixe pentru uz casnic și scopuri similare. Partea 1: Prescripții generale
Inlocuit prin SR EN 60669-1:2018

SR EN 60669-1:2002 **T**
Întreruptoare pentru instalații electrice fixe pentru uz casnic și scopuri similare. Partea 1: Prescripții generale
Inlocuit prin SR EN 60669-1:2018

29.140.99 Alte standarde referitoare la lămpi
SR EN 60810:2015 **A**
Lămpi pentru vehicule rutiere. Prescripții de performanțe
Inlocuit prin SR EN IEC 60810:2018

SR EN 60810:2015/A1:2017 **A**
Lămpi pentru vehicule rutiere. Prescripții de performanțe
Inlocuit prin SR EN IEC 60810:2018

31.080.01 Dispozitive cu semiconductoare în general
SR EN 60749-26:2015 **A**
Dispozitive cu semiconductoare. Metode de încercare mecanice și climatice. Partea 26: Încercarea de sensibilitate a descărcărilor electrostatice (DES). Modelul corpului uman (HCM)
Inlocuit prin SR EN IEC 60749-26:2018

SR EN 60191-1:2007 **NCT**
Standardizarea mecanică a dispozitivelor cu semiconductoare. Partea 1: Reguli generale pentru pregătirea dispozitivelor discrete
Inlocuit prin SR EN IEC 60191-1:2018

31.220.01 Componente electromecanice în general
SR EN 60512-8-3:2012 **A**
Componente electromecanice pentru echipamente

electronice. Încercări și măsurări. Partea 8-3: Încercări la impact sub sarcină statică (conectoare fixe). Încercarea 8c: Robustețea pârgheii de comandă
Inlocuit prin SR EN IEC 60512-8-3:2018

31.220.10 Fișe. Conectoare

SR EN 60512-15-2:2009 NCT

Conectoare pentru echipamente electronice. Încercări și măsurări. Partea 15-2: Încercări (mecanice) ale conectoarelor. Încercarea 15b: Reținerea izolanțului în carcasă (axial)

Inlocuit prin SR EN IEC 60512-15-2:2018

33.020 Telecomunicații în general

SR EN 301 925 V1.5.1:2017 A

Emitătoare și receptoare de telefonie pentru serviciul mobil maritim care funcționează în benzile VHF.

Caracteristici tehnice și metode de măsurare

Inlocuit prin SR EN 301 925 V1.6.1:2021

SR EN 303 276 V1.1.1:2017 A

Legătură radio de bandă largă maritimă care operează în benzile de frecvențe de la 5852 MHz până la 5 872 MHz și/sau de la 5880 MHz până la 5900 MHz pentru navele și instalațiile de coastă implicate în activități coordonate Standard armonizat acoperind cerințele esențiale ale articolului 3.2 al Directivei 2014/53/EU

Inlocuit prin SR EN 303 276 V1.2.1:2021

33.160.01 Tehnici audio, video și audiovizuale în general

SR EN 61938:2014 A

Sisteme multimedia. Ghid referitor la caracteristicile recomandate ale interfețelor analogice în scopul obținerii interoperabilității

Inlocuit prin SR EN IEC 61938:2018

33.160.25 Receptoare video

SR EN 62731:2013 A

Sinteză vocală pentru televiziune. Cerințe generale

Inlocuit prin SR EN IEC 62731:2018

33.160.99 Alte echipamente audio și video

SR EN 62731:2013 A

Sinteză vocală pentru televiziune. Cerințe generale

Inlocuit prin SR EN IEC 62731:2018

33.180.01 Sisteme cu fibră optică în general

SR EN 62148-1:2004 FC

Componente și dispozitive active pentru fibre optice. Standarde pentru casetă și interfață. Partea 1:

Generalități și ghid

Inlocuit prin SR EN IEC 62148-1:2018

33.180.10 Fibre optice și cabluri

SR EN 60793-1-54:2013 A

Fibre optice. Partea 1-54: Metode de măsurare și proceduri de încercare. Iradiere gamma

Inlocuit prin SR EN IEC 60793-1-54:2018

35.030 Securitatea IT

SR ISO/CEI 11770-5:2014 FC

Tehnologia informației. Tehnici de securitate.

Administrarea cheilor. Partea 5: Administrarea cheilor de grup

Inlocuit prin SR ISO/IEC 11770-5:2021

35.040 Codificarea informației

SR EN 62439-5:2010 A

Rețele de comunicații industriale. Rețele de automatizare de înaltă disponibilitate. Partea 5: Protocol de redundanță cu balize (BRP)

Inlocuit prin SR EN IEC 62439-5:2018

SR EN 62439-3:2013 A

Rețele de comunicații industriale. Rețele de automatizare de înaltă disponibilitate. Partea 3: Protocol de redundanță paralelă (PRP) și redundanță transparentă de înaltă disponibilitate (HSR)

Inlocuit prin SR EN IEC 62439-3:2018

35.040.01 Codificarea informației în general

35.040.10 Codificarea seturilor de caractere

35.040.30 Codificarea informațiilor grafice și fotografice

35.040.40 Codificarea informațiilor audio, video, multimedia și hipermedia

35.040.50 Tehnici automate de identificare și de capturare a datelor

35.040.99 Alte standarde referitoare la codificarea informației

35.110 Rețele

SR EN 62056-6-2:2017 A

Schimb de date de măsurare a energiei electrice. Suită DLMS/COSEM. Partea 6-2: Clase de interfață COSEM

Inlocuit prin SR EN IEC 62056-6-2:2018

35.200 Echipament de interfață și interconectare**SR EN 61938:2014** **A**

Sisteme multimedia. Ghid referitor la caracteristicile recomandate ale interfețelor analogice în scopul obținerii interoperabilității

Inlocuit prin SR EN IEC 61938:2018

35.240.30 Aplicații IT în informație, documentare și editare**SR ISO 15511:2018** **T**

Informare și documentare. Identificator internațional standard pentru biblioteci și organizații asociate (ISIL)

Inlocuit prin SR ISO 15511:2021

35.240.50 Aplicații IT în industrie**SR EN 61804-2:2008** **A**

Blocuri de funcții (FB) pentru comanda proceselor. Partea 2: Specificația conceptului de bloc de funcții

Inlocuit prin SR EN IEC 61804-2:2018

35.240.60 Aplicații IT în transport**SR EN ISO 24014-1:2016** **T**

Transport public. Sistem interoperabil de gestionare a costului călătoriei. Partea 1: Arhitectură

Inlocuit prin SR EN ISO 24014-1:2021

47.080 Nave de agrement**SR EN ISO 9093-1:2019** **NCT**

Nave mici. Robinete pentru corpul navei și fittinguri de trecere. Partea 1: Construcție metalică

Inlocuit prin SR EN ISO 9093:2021

SR EN ISO 9093-2:2019 **NCT**

Nave mici. Robinete pentru corpul navei și fittinguri de trecere. Partea 2: Construcție nemetalică

Inlocuit prin SR EN ISO 9093:2021

SR EN ISO 16147:2019 **A**

Nave mici. Motoare diesel, fixe la bord. Componentele instalației de alimentare, instalației de ungere și instalației electrice fixate pe motor

Inlocuit prin SR EN ISO 16147:2021

53.080 Echipament de stocare**SR EN 15512:2009** **NCT**

Sisteme de depozitare statice de oțel. Rafturi reglabile pentru palete. Principii pentru proiectarea structurală

Inlocuit prin SR EN 15512:2021

59.060.01 Fibre textile în general**SR EN ISO 1833-3:2019** **A**

Materiale textile. Analiză chimică cantitativă. Partea 3: Amestecuri de acetat cu alte fibre specificate (metoda cu acetonă)

Inlocuit prin SR EN ISO 1833-3:2021

59.120.01 Mașini pentru industria textilă în general**SR EN ISO 9902-6:2003** **T**

Mașini pentru industria textilă. Cod de încercare a zgomotului. Partea 6: Mașini pentru producția de țesături

Inlocuit prin SR EN ISO 9902-6:2021

59.120.30 Războaie. Mașini de țesut**SR EN ISO 9902-6:2003/A1:2009** **NCT**

Mașini pentru industria textilă. Cod de încercare a zgomotului. Partea 6: Mașini pentru producția de țesături. Amendament 1

Inlocuit prin SR EN ISO 9902-6:2021

SR EN ISO 9902-6:2003/A2:2014 **NCT**

Mașini pentru industria textilă. Cod de încercare a zgomotului. Partea 6: Mașini pentru producția de țesături. Amendament 2

Inlocuit prin SR EN ISO 9902-6:2021

67.200.10 Uleiuri și grăsimi vegetale și animale**SR EN 14105:2011** **A**

Produse derivate din grăsimi și uleiuri. Esteri metilici ai acizilor grași (EMAG). Determinarea conținutului de glicerol liber și total și a mono-, di și trigliceridelor

Inlocuit prin SR EN 14105:2021

SR EN 14104:2003 **T**

Produse derivate din grăsimi și uleiuri. Esteri metilici ai acizilor grași (EMAG). Determinarea indicelui de aciditate

Inlocuit prin SR EN 14104:2021

67.260 Mașini și utilaje pentru industria alimentară**SR EN 12463:2015** **NCT**

Mașini pentru industria alimentară. Mașini pentru umplerea ambalajelor și mașini auxiliare. Cerințe de securitate și igienă

Inlocuit prin SR EN 12463:2021

75.080 Produse petroliere în general**SR EN 15199-1:2007** **A**

Produse petroliere. Determinarea repartiției în intervalul de distilare prin metoda cromatografică în

fază gazoasă. Partea 1: Distilate medii și uleiuri lubrifiante

Inlocuit prin SR EN 15199-1:2021

SR EN 15199-2:2007 **A**

Produse petroliere. Determinarea repartiției în intervalul de distilare prin metoda cromatografică în fază gazoasă. Partea 2: Combustibili grei și combustibili reziduali

Inlocuit prin SR EN 15199-2:2021

SR EN 15199-3:2008 **A**

Produse petroliere. Determinarea repartiției în intervalul de distilare prin metoda cromatografică în fază gazoasă. Partea 3: Țiței

Inlocuit prin SR EN 15199-3:2021

75.160.40 Biocombustibili

SR EN 15407:2011 **A**

Combustibili solizi prin recuperare. Metode pentru determinarea conținutului de carbon (C), de hidrogen (H) și de azot (N)

Inlocuit prin SR EN ISO 21663:2021

SR EN 15440:2011 **NCT**

Combustibili solizi prin recuperare. Metode pentru determinarea conținutului de biomasă

Inlocuit prin SR EN ISO 21644:2021

SR EN 15440:2011/AC:2011 **ER**

Combustibili solizi prin recuperare. Metode pentru determinarea conținutului de biomasă

Inlocuit prin SR EN ISO 21644:2021

77.060 Coroziunea metalelor

SR EN ISO 8407:2014 **A**

Coroziunea metalelor și aliajelor. Îndepărtarea produșilor de coroziune de pe epruvetele pentru încercarea la coroziune

Inlocuit prin SR EN ISO 8407:2021

SR EN ISO 18086:2018 **A**

Coroziunea metalelor și aliajelor. Determinarea coroziunii în curent alternativ. Criterii de protecție

Inlocuit prin SR EN ISO 18086:2021

83.080.20 Materiale termoplastice

SR EN ISO 11542-2:2003 **FC**

Materiale plastice. Materiale pentru injecție și extrudare pe bază de polietilenă de masă moleculară foarte înaltă (PE-UHMW). Partea 2: Prepararea epruvetelor și determinarea proprietăților

Inlocuit prin SR EN ISO 21304-2:2021

SR EN ISO 11542-2:2003/AC:2009 **A**

Materiale plastice. Materiale pentru injecție și extrudare pe bază de polietilenă de masă moleculară foarte înaltă (PE-UHMW). Partea 2: Prepararea epruvetelor și determinarea proprietăților

Inlocuit prin SR EN ISO 21304-2:2021

83.140.99 Alte produse din cauciuc și materiale plastice

SR EN 12613:2009 **NCT**

Dispozitive de avertizare cu caracteristici vizuale, din materiale plastice, pentru cabluri și conducte îngropate

Inlocuit prin SR EN 12613:2021

87.040 Vopsele și emailuri

SR EN ISO 16474-3:2014 **A**

Vopsele și lacuri. Metode de expunere la surse de lumină de laborator. Partea 3: Lămpi fluorescente UV

Inlocuit prin SR EN ISO 16474-3:2021

91.060.50 Uși și ferestre

SR EN 12604:2018 **A**

Uși și porți pentru uz industrial, comercial și pentru garaje. Aspecte mecanice. Cerințe și metode de încercare

Inlocuit prin SR EN 12604+A1:2021

91.140.50 Sisteme de alimentare cu energie electrică

SR EN 62056-6-2:2017 **A**

Schimb de date de măsurare a energiei electrice. Suită DLMS/COSEM. Partea 6-2: Clase de interfață COSEM

Inlocuit prin SR EN IEC 62056-6-2:2018

93.030 Sisteme de canalizare externe

SR EN 14654-1:2014 **NCT**

Managementul și controlul activităților de curățare în rețelele de canalizare. Partea 1: Curățare

Inlocuit prin SR EN 14654-1:2021

97.040.30 Aparate de răcit de uz casnic

SR EN 16901:2017 **A**

Congelatoare pentru înghețată. Clasificare, cerințe și condiții de încercare

Inlocuit prin SR EN ISO 22043:2021

97.080 Dispozitive de curățat

SR EN 1829-1:2010 **A**

Mașini cu jet de apă de înaltă presiune. Cerințe de securitate. Partea 1: Mașini

Inlocuit prin SR EN 1829-1:2021

STANDARDE EUROPENE / INTERNAȚIONALE ADOPTATE ÎNȚĂL PRIN FILĂ DE CONFIRMARE SAU NOTĂ DE CONFIRMARE PENTRU CARE S-A PUBLICAT VERSIUNEA ROMÂNĂ

În această rubrică sunt înscrise standardele române adoptate inițial prin filă de confirmare sau notă de confirmare pentru care s-a publicat versiunea română în luna anterioară.

Data de aprobare menționată sub titlul standardului este data la care a fost adoptat standardul european prin filă de confirmare sau notă de confirmare.

11.040.01 Echipament medical în general

SR EN 13718-2+A1:2020 NCT

Vehicule medicale și echipamentul acestora.
Ambulanțe aeriene. Partea 2: Cerințe tehnice și operaționale pentru ambulanțele aeriene
Data aprobării: 29.05.2020
Data traducerii: 26.02.2021

11.160 Primul ajutor

SR EN 13718-2+A1:2020 NCT

Vehicule medicale și echipamentul acestora.
Ambulanțe aeriene. Partea 2: Cerințe tehnice și operaționale pentru ambulanțele aeriene
Data aprobării: 29.05.2020
Data traducerii: 26.02.2021

13.020.10 Managementul mediului

SR EN ISO 14044:2007/A2:2020 NCT

Management de mediu. Evaluarea ciclului de viață.
Cerințe și linii directoare. Amendament 2
Data aprobării: 27.11.2020
Data traducerii: 15.02.2021

SR EN ISO 14040:2007/A1:2020 NCT

Management de mediu. Evaluarea ciclului de viață.
Principii și cadru de lucru. Amendament 1
Data aprobării: 27.11.2020
Data traducerii: 15.02.2021

13.020.60 Ciclul de viață al produselor

SR EN ISO 14044:2007/A2:2020 NCT

Management de mediu. Evaluarea ciclului de viață.
Cerințe și linii directoare. Amendament 2
Data aprobării: 27.11.2020
Data traducerii: 15.02.2021

SR EN ISO 14040:2007/A1:2020 NCT

Management de mediu. Evaluarea ciclului de viață.
Principii și cadru de lucru. Amendament 1
Data aprobării: 27.11.2020
Data traducerii: 15.02.2021

13.120 Securitatea în locuințe

SR EN 60335-2-78:2004/A11:2020 NCT

Aparate electrice pentru uz casnic și scopuri similare.
Securitate. Partea 2-78: Prescripții particulare pentru grătare electrice de exterior
Data aprobării: 30.04.2020
Data traducerii: 26.02.2021

SR EN IEC 60335-2-43:2020 NCT

Aparate electrice pentru uz casnic și scopuri similare.
Securitate. Partea 2-43: Prescripții particulare pentru aparate de uscat rufe și uscătoare de prosoape
Data aprobării: 27.11.2020
Data traducerii: 26.02.2021

13.220.50 Rezistența la foc a materialelor și a elementelor de construcții

SR EN 50553:2012/A2:2020 NCT

Aplicații feroviare. Prescripții referitoare la capacitatea de a circula în caz de incendiu la bordul materialului rulant
Data aprobării: 30.04.2020
Data traducerii: 26.02.2021

23.040.10 Țevi și tuburi din fontă și oțel

SR EN 10217-1:2019 NCT

Țevi din oțel, sudate, utilizate la presiune. Condiții tehnice de livrare. Partea 1: Țevi din oțel nealiat, sudate electric prin presiune în linie și sudate cu arc electric sub strat de flux, cu caracteristici specificate la temperatura ambiantă
Data aprobării: 30.09.2019
Data traducerii: 26.02.2021

SR EN 10217-2:2019 NCT

Țevi din oțel, sudate, utilizate la presiune. Condiții tehnice de livrare. Partea 2: Țevi din oțel nealiat și aliat, sudate electric prin presiune în linie, cu caracteristici specificate la temperatură ridicată
Data aprobării: 30.09.2019
Data traducerii: 26.02.2021

SR EN 10217-3:2019 NCT

Țevi din oțel, sudate, utilizate la presiune. Condiții tehnice de livrare. Partea 3: Țevi din oțel aliat cu granulație fină, sudate electric prin presiune în linie și sudate cu arc electric sub strat de flux, cu caracteristici

specificate la temperatură scăzută și la temperatură ridicată

Data aprobării: 30.09.2019

Data traducerii: 26.02.2021

29.120.50 Siguranțe fuzibile și alte aparate de protecție la scurtcircuit

SR EN 60691:2017 NCT

Protectoare termice. Prescripții și ghid de aplicare

Data aprobării: 31.03.2017

Data traducerii: 26.02.2021

SR EN 60691:2017/A1:2019 NCT

Protectoare termice. Prescripții și ghid de aplicare

Data aprobării: 30.09.2019

Data traducerii: 26.02.2021

29.280 Echipament pentru tracțiune electrică

SR EN 50163:2006/A2:2020 NCT

Aplicații feroviare. Tensiuni de alimentare a rețelelor de tracțiune electrică

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

33.100.10 Emisie

SR EN 61000-3-3:2014 NCT

Compatibilitate electromagnetică (CEM). Partea 3-3: Limite - Limitarea variațiilor de tensiune, a fluctuațiilor de tensiune și a flickerului în rețelele publice de alimentare de joasă tensiune, pentru echipamente având un curent nominal ≤ 16 A pe fază și care nu sunt supuse unor restricții de conectare

Data aprobării: 28.02.2014

Data traducerii: 26.02.2021

35.020 Tehnologia informației (IT) în general

SR EN 50600-1:2020 NCT

Tehnologia informației. Instalații și infrastructuri pentru centre de prelucrare a datelor. Partea 1: Concepte generale

Data aprobării: 28.02.2020

Data traducerii: 26.02.2021

35.160 Sisteme de microprocesoare

SR EN 50600-1:2020 NCT

Tehnologia informației. Instalații și infrastructuri pentru centre de prelucrare a datelor. Partea 1: Concepte generale

Data aprobării: 28.02.2020

Data traducerii: 26.02.2021

35.240.60 Aplicații IT în transport

SR EN 50128:2012/A1:2020 NCT

Aplicații feroviare. Sisteme de semnalizare, de telecomunicații și de prelucrare de date. Software pentru sisteme feroviare de comandă și de protecție

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

45.020 Ingineria căilor ferate în general

SR EN 50128:2012/A1:2020 NCT

Aplicații feroviare. Sisteme de semnalizare, de telecomunicații și de prelucrare de date. Software pentru sisteme feroviare de comandă și de protecție

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

45.060.01 Material rulant pentru căi ferate în general

SR EN 50153:2015/A2:2020 NCT

Aplicații feroviare. Material rulant. Măsurări de protecție referitoare la pericolele electrice

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

SR EN 50553:2012/A2:2020 NCT

Aplicații feroviare. Prescripții referitoare la capacitatea de a circula în caz de incendiu la bordul materialului rulant

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

47.080 Nave de agrement

SR EN ISO 8665:2018 NCT

Nave mici. Motoare cu ardere internă cu piston pentru propulsie navală. Măsurarea și declararea puterii

Data aprobării: 31.01.2018

Data traducerii: 26.02.2021

SR EN ISO 8847:2018 NCT

Nave mici. Instalații de guvernare. Sisteme cu troț și rolă

Data aprobării: 31.01.2018

Data traducerii: 26.02.2021

49.020 Aeronave și vehicule spațiale în general

SR EN 13718-2+A1:2020 NCT

Vehicule medicale și echipamentul acestora. Ambulanțe aeriene. Partea 2: Cerințe tehnice și operaționale pentru ambulanțele aeriene

Data aprobării: 29.05.2020

Data traducerii: 26.02.2021

55.120 Cutii. Tuburi**SR EN 12375:2009****NCT**

Ambalaje. Tuburi flexibile de aluminiu. Metodă de determinare a grosimii peretelui

Data aprobării: 30.09.2009

Data traducerii: 26.02.2021

SR EN 13045:2009**NCT**

Ambalaje. Tuburi flexibile cilindrice din material plastic. Dimensiuni și toleranțe

Data aprobării: 30.09.2009

Data traducerii: 26.02.2021

65.120 Nutrețuri**SR EN 15742:2020****NCT**

Hrană pentru animale: Metode de eșantionare și de analiză. Determinarea conținutului de pesticide organoclorurate (POC) prin GC/ECD

Data aprobării: 29.05.2020

Data traducerii: 26.02.2021

71.100.30 Explozivi. Substanțe pirotehnice și focuri de artificii**SR EN 16263-4:2016****NCT**

Articole pirotehnice. Alte articole pirotehnice. Partea 4: Metode de încercare

Data aprobării: 29.01.2016

Data traducerii: 15.02.2021

75.080 Produse petroliere în general**SR EN ISO 4259-1:2018/A2:2021****NCT**

Produse petroliere și produse înrudite. Fidelitatea metodelor de măsurare și a rezultatelor. Partea 1: Determinarea valorilor de fidelitate referitoare la metodele de încercare. Amendament 2

Data aprobării: 29.01.2021

Data traducerii: 15.02.2021

75.140 Ceară de petrol, materiale bituminoase și alte produse petroliere**SR EN 13075-2:2017****NCT**

Bitum și lianți bituminoși. Determinarea comportării la rupere. Partea 2: Determinarea duratei de amestecare a particulelor fine în emulsiile bituminoase cationice

Data aprobării: 28.04.2017

Data traducerii: 26.02.2021

77.140.75 Țevi și tuburi din oțel pentru utilizări speciale**SR EN 10217-2:2019****NCT**

Țevi din oțel, sudate, utilizate la presiune. Condiții

tehnice de livrare. Partea 2: Țevi din oțel nealiat și aliat, sudate electric prin presiune în linie, cu caracteristici specificate la temperatură ridicată

Data aprobării: 30.09.2019

Data traducerii: 26.02.2021

SR EN 10217-3:2019**NCT**

Țevi din oțel, sudate, utilizate la presiune. Condiții tehnice de livrare. Partea 3: Țevi din oțel aliat cu granulație fină, sudate electric prin presiune în linie și sudate cu arc electric sub strat de flux, cu caracteristici specificate la temperatură scăzută și la temperatură ridicată

Data aprobării: 30.09.2019

Data traducerii: 26.02.2021

SR EN 10217-1:2019**NCT**

Țevi din oțel, sudate, utilizate la presiune. Condiții tehnice de livrare. Partea 1: Țevi din oțel nealiat, sudate electric prin presiune în linie și sudate cu arc electric sub strat de flux, cu caracteristici specificate la temperatura ambiantă

Data aprobării: 30.09.2019

Data traducerii: 26.02.2021

91.100.50 Lianți. Materiale pentru etanșare**SR EN 13075-2:2017****NCT**

Bitum și lianți bituminoși. Determinarea comportării la rupere. Partea 2: Determinarea duratei de amestecare a particulelor fine în emulsiile bituminoase cationice

Data aprobării: 28.04.2017

Data traducerii: 26.02.2021

SR EN 14691:2017**NCT**

Foi flexibile pentru hidroizolații. Hidroizolarea tablierelor de pod din beton și a altor suprafețe de beton circulate de vehicule. Determinarea compatibilității prin condiționare termică

Data aprobării: 31.08.2017

Data traducerii: 26.02.2021

SR EN 14692:2017**NCT**

Foi flexibile pentru hidroizolații. Hidroizolarea tablierelor de pod din beton și a altor suprafețe de beton circulate de vehicule. Determinarea rezistenței la compactare a stratului bituminos

Data aprobării: 31.08.2017

Data traducerii: 26.02.2021

91.180 Finisaje interioare**SR EN 60335-2-78:2004/A11:2020****NCT**

Aparate electrice pentru uz casnic și scopuri similare. Securitate. Partea 2-78: Prescripții particulare pentru grătare electrice de exterior

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

93.100 Construcții de căi ferate

SR EN 50128:2012/A1:2020 NCT

Aplicații feroviare. Sisteme de semnalizare, de telecomunicații și de prelucrare de date. Software pentru sisteme feroviare de comandă și de protecție

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

97.060 Echipamente de spălat

SR EN IEC 60335-2-43:2020 NCT

Aparate electrice pentru uz casnic și scopuri similare. Securitate. Partea 2-43: Prescripții particulare pentru aparate de uscat rufe și uscătoare de prosoape

Data aprobării: 27.11.2020

Data traducerii: 26.02.2021

SR EN 60335-2-85:2004/A2:2020 NCT

Aparate electrice pentru uz casnic și scopuri similare. Securitate. Partea 2-85: Prescripții particulare pentru aparate cu aburi pentru netezit țesături

Data aprobării: 30.06.2020

Data traducerii: 26.02.2021

97.180 Echipamente menajere și comerciale diverse

SR EN 60335-2-82:2004/A2:2020 NCT

Aparate electrice pentru uz casnic și scopuri similare. Securitate. Partea 2-82: Prescripții particulare pentru mașini de divertisment și mașini pentru utilități personale

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

97.200.40 Suprafețe pentru joc

SR EN 60335-2-82:2004/A2:2020 NCT

Aparate electrice pentru uz casnic și scopuri similare. Securitate. Partea 2-82: Prescripții particulare pentru mașini de divertisment și mașini pentru utilități personale

Data aprobării: 30.04.2020

Data traducerii: 26.02.2021

STANDARDIZAREA EUROPEANĂ

Informațiile din această secțiune se referă la activitatea Organizațiilor Europene de Standardizare CEN, CENELEC și ETSI.

Pentru înțelegerea simbolurilor utilizate în această secțiune se fac precizările de mai jos:

EN	standard european (CEN, CENELEC, ETSI)
HD	document de armonizare (CENELEC)
CEN/TS, CLC/TS	specificație tehnică europeană
CEN/TR, CLC/TR	raport tehnic european
CWA	acordul unui workshop CEN/CENELEC
ETSI EG	ghid ETSI
ETSI EN	standard european pentru telecomunicații
ETSI ES	standard ETSI
ETSI TS	specificație tehnică ETSI
ETSI TR	raport tehnic ETSI
ETSI SR	raport special ETSI
prEN	proiect de standard european aflat în anchetă publică
prHD	proiect de document de armonizare aflat în anchetă publică
doa	termenul limită de anunțare a standardului european la nivel național
dop	termenul limită de publicare a standardului european la nivel național
dow	termenul limită de retragere a standardelor naționale conflictuale
dea	termenul limită de vot



STANDARDE / DOCUMENTE DE STANDARDIZARE EUROPENE CEN APROBATE

În perioada 2021.02.01 – 2021.02.28

01.040 Vocabulare

performance specification

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

01.040.07 Științe naturale și aplicate (Vocabulare)

01.100 Desene tehnice

CEN ISO/TS 80004-11:2020

Nanotechnologies - Vocabulary - Part 11:
Nanolayer, nanocoating, nanofilm, and related
terms (ISO/TS 80004-11:2017)

doa: 2020-11-30 dop: dow:

01.100.01 Desene tehnice în general

EN ISO 128-2:2020

Technical product documentation (TPD) - General
principles of representation - Part 2: Basic
conventions for lines (ISO 128-2:2020)

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

CEN ISO/TS 80004-13:2020

Nanotechnologies - Vocabulary - Part 13:
Graphene and related two-dimensional (2D)
materials (ISO/TS 80004-13:2017)

doa: 2020-11-30 dop: dow:

03.220 Transport

01.040.13 Mediu. Protecția sănătății. Securitate. (Vocabulare)

03.220.20 Transport rutier

EN ISO 14050:2020

Environmental management - Vocabulary (ISO
14050:2020)

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

EN 15722:2020

Intelligent transport systems - ESafety - ECall
minimum set of data

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

01.040.49 Aeronautică și spațiu (Vocabulare)

EN 17358:2020

Intelligent transport systems - ESafety - eCall
OAD for multiple Optional Additional Datasets

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

EN 16603-60-20:2020

Space engineering - Star sensor terminology and

03.240 Servicii poștale

CEN/TS 17073:2020/AC:2020

Postal services - Interfaces for cross border parcels

doa: dop: dow:

07.100 Microbiologie

07.100.30 Microbiologie alimentară

EN ISO 16140-4:2020

Microbiology of the food chain - Method validation - Part 4: Protocol for method validation in a single laboratory (ISO 16140-4:2020)

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

EN ISO 16140-5:2020

Microbiology of the food chain - Method validation - Part 5: Protocol for factorial interlaboratory validation for non-proprietary methods (ISO 16140-5:2020)

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

07.120 Nanotehnologii

CEN ISO/TS 80004-11:2020

Nanotechnologies - Vocabulary - Part 11: Nanolayer, nanocoating, nanofilm, and related terms (ISO/TS 80004-11:2017)

doa: 2020-11-30 dop: dow:

CEN ISO/TS 80004-13:2020

Nanotechnologies - Vocabulary - Part 13: Graphene and related two-dimensional (2D) materials (ISO/TS 80004-13:2017)

doa: 2020-11-30 dop: dow:

11.040 Echipament medical

11.040.01 Echipament medical în general

CEN ISO/TR 20416:2020

Medical devices - Post-market surveillance for manufacturers (ISO/TR 20416:2020)

doa: dop: dow:

11.100 Medicină de laborator

11.100.20 Evaluarea biologică a dispozitivelor medicale

EN ISO 14155:2020

Clinical investigation of medical devices for human subjects - Good clinical practice (ISO 14155:2020)

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

13.020 Protecția mediului

13.020.10 Managementul mediului

EN ISO 14050:2020

Environmental management - Vocabulary (ISO 14050:2020)

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

13.020.20 Economia mediului. Durabilitate

EN ISO 14007:2020

Environmental management - Guidelines for determining environmental costs and benefits (ISO 14007:2019)

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

EN ISO 14008:2020

Monetary valuation of environmental impacts and related environmental aspects (ISO 14008:2019)

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

13.040 Calitatea aerului

13.040.20 Aer ambiant

EN 17359:2020

Stationary source emissions - Bioaerosols and biological agents - Sampling of bioaerosols and collection in liquids - Impingement method

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

13.040.35 Camere curate și mediu înconjurător controlat

EN 17141:2020

Cleanrooms and associated controlled environments - Biocontamination control

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

13.200 Prevenirea accidentelor și dezastrelor

EN 15722:2020

Intelligent transport systems - ESafety - ECall minimum set of data

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

EN 16303:2020

Road restraint systems - Validation and verification process for the use of virtual testing in crash testing against vehicle restraint system

doa: 2020-11-30 dop: 2021-02-28

dow: 2021-02-28

13.220 Protecția contra incendiilor

13.220.01 Standarde generale referitoare la protecția contra incendiilor

CEN/TR 17524:2020

Fire safety engineering in Europe - Review of national requirements and application
doa: dop: dow:

13.220.20 Protecția contra incendiilor

EN 16750:2017+A1:2020

Fixed firefighting systems - Oxygen reduction systems - Design, installation, planning and maintenance
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

CEN/TR 17532:2020

Railway applications - Fire protection on railway vehicles - Assessment of fire containment and control systems for railway vehicles
doa: dop: dow:

EN 45545-2:2020

Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

13.220.50 Rezistența la foc a materialelor și a elementelor de construcții

EN 1366-1:2014+A1:2020

Fire resistance tests for service installations - Part 1: Ventilation ducts
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

13.280 Protecția contra radiațiilor

EN ISO 20785-1:2020

Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 1: Conceptual basis for measurements (ISO 20785-1:2020)
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

EN ISO 20785-2:2020

Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 2: Characterization of instrument response (ISO 20785-2:2020)
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

13.320 Sisteme de alarmă și de alertare

EN 17355:2020

Railway applications - Communication device for urban rail - System requirements
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

13.340 Echipament de protecție individuală

13.340.10 Îmbrăcăminte de protecție

EN 17353:2020

Protective clothing - Enhanced visibility equipment for medium risk situations - Test methods and requirements
doa: 2020-11-30 dop: 2021-02-28
 dow: 2023-08-31

17.140 Acustică și măsurări acustice

17.140.30 Zgomot emis de mijloace de transport

EN 17285:2020

Railway applications - Acoustics - Measuring of door audible warnings
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

19.100 Încercări nedistructive

EN ISO 22232-1:2020

Non-destructive testing - Characterization and verification of ultrasonic test equipment - Part 1: Instruments (ISO 22232-1:2020)
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

23.020 Mijloace pentru stocarea fluidelor

23.020.30 Recipiente sub presiune

EN 12542:2020

LPG equipment and accessories - Static welded steel cylindrical pressure vessels, serially produced for the storage of Liquefied Petroleum Gas (LPG) having a volume not greater than 13 m³ - Design and manufacture
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

23.020.35 Butelii de gaz

EN ISO 17871:2020

Gas cylinders - Quick-release cylinder valves - Specification and type testing (ISO 17871:2020)
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

23.040 Conducte și accesorii

23.040.01 Conducte și accesorii în general

EN 13480-3:2017/A2:2020

Metallic industrial piping - Part 3: Design and calculation
doa: 2020-11-30 dop: 2021-02-28
 dow: 2021-02-28

EN 13480-3:2017/A3:2020

Metallic industrial piping - Part 3: Design and calculation

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

23.100 Transmisii hidraulice și pneumatice

23.100.40 Conducte și cuplaje

EN ISO 3949:2020

Plastics hoses and hose assemblies - Textile-reinforced types for hydraulic applications - Specification (ISO 3949:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

25.160 Sudare și lipire

25.160.20 Materiale pentru sudare

EN ISO 24034:2020

Welding consumables - Solid wire electrodes, solid wires and rods for fusion welding of titanium and titanium alloys - Classification (ISO 24034:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

27.060 Arzătoare. Boilere

27.060.10 Arzătoare cu combustibil lichid și solid

EN 12514:2020

Components for supply systems for consuming units with liquid fuels

doa: 2020-11-30 dop: 2021-02-28
dow: 2022-05-31

27.200 Tehnica frigului

EN 13215:2016+A1:2020

Condensing units for refrigeration - Rating conditions, tolerances and presentation of manufacturer's performance data

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

29.240 Rețele de transport și distribuție a energiei electrice

29.240.01 Rețele de transport și distribuție a energiei electrice în general

CWA 50714:2020

Reference model for distribution application for microgrids

doa: dop: dow:

35.240 Aplicații privind tehnologia informației

35.240.15 Cartele de identificare. Carduri cu cip. Biometrie

CEN/TS 17489-1:2020

Personal identification - Secure and interoperable European Breeder Documents - Part 1: Framework overview

doa: 2020-11-30 dop: dow:

35.240.60 Aplicații IT în transport

EN 15722:2020

Intelligent transport systems - ESafety - ECall minimum set of data

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN 16157-5:2020

Intelligent transport systems - DATEX II data exchange specifications for traffic management and information - Part 5: Measured and elaborated data publications

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN 17358:2020

Intelligent transport systems - ESafety - eCall OAD for multiple Optional Additional Datasets

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

35.240.67 Aplicații IT în clădiri și industria de construcții

EN ISO 19650-3:2020

Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 3: Operational phase of the assets (ISO 19650-3:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

35.240.69 Aplicații IT în servicii poștale

CEN/TS 17073:2020/AC:2020

Postal services - Interfaces for cross border parcels

doa: dop: dow:

35.240.80 Aplicații IT în medicină

EN 1064:2020

Health informatics - Standard communication protocol - Computer-assisted electrocardiography

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

43.160 Vehicule cu destinație specială

EN 16486:2014+A1:2020

Machines for compacting waste materials or recyclable fractions - Compactors - Safety requirements

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

45.060 Material rulant pentru căi ferate

45.060.01 Material rulant pentru căi ferate în general

EN 17355:2020

Railway applications - Communication device for urban rail - System requirements

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

CEN/TR 17532:2020

Railway applications - Fire protection on railway vehicles - Assessment of fire containment and control systems for railway vehicles

doa: dop: dow:

EN 45545-2:2020

Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

45.060.20 Material rulant tractat

EN 17285:2020

Railway applications - Acoustics - Measuring of door audible warnings

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

49.020 Aeronave și vehicule spațiale în general

EN ISO 20785-1:2020

Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 1: Conceptual basis for measurements (ISO 20785-1:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN ISO 20785-2:2020

Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 2: Characterization of instrument response (ISO 20785-2:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

49.140 Sisteme spațiale, dezvoltare și operare

EN 16603-60-20:2020

Space engineering - Star sensor terminology and performance specification

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN 17350:2020

SCM - Scheduling and Commanding Message - Standard

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

53.060 Cărucioare de manipulare

EN 16307-1:2020

Industrial trucks - Safety requirements and verification - Part 1: Supplementary requirements for self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN 16842-10:2020

Powered industrial trucks - Visibility - Test methods and verification - Part 10: Towing and Pushing tractors and Burden carrier

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

53.100 Mașini și utilaje pentru lucrări terasiere

EN ISO 19014-4:2020

Earth-moving machinery - Functional safety - Part 4: Design and evaluation of software and data transmission for safety-related parts of the control system (ISO 19014-4:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

67.060 Cereale, leguminoase și produse derivate

EN ISO 6647-1:2020

Rice - Determination of amylose content - Part 1: Spectrophotometric method with a defatting procedure by methanol and with calibration solutions of potato amylose and waxy rice amylopectin (ISO 6647-1:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN ISO 6647-2:2020

Rice - Determination of amylose content - Part 2: Spectrophotometric routine method without defatting procedure and with calibration from rice standards (ISO 6647-2:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

67.220 Stimulenți și condimente. Aditivi alimentari

67.220.10 Stimulenți și condimente

EN ISO 7540:2020

Spices and condiments - Ground sweet and hot paprika (*Capsicum annum* L. and *Capsicum frutescens* L.) - Specifications (ISO 7540:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN ISO 7541:2020

Spices and condiments - Spectrophotometric determination of the extractable colour in paprika (ISO 7541:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

71.100 Produse din industria chimică

71.100.50 Produse chimice pentru protecția lemnului

EN 73:2020

Durability of wood and wood-based products - Accelerated ageing of treated wood prior to biological testing - Evaporative ageing procedure

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN 84:2020

Durability of wood and wood-based products - Accelerated ageing of treated wood prior to biological testing - Leaching procedure

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

75.160 Combustibili

75.160.20 Combustibili lichizi

EN ISO 5165:2020

Petroleum products - Determination of the ignition quality of diesel fuels - Cetane engine method (ISO 5165:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

75.180 Mașini și utilaje pentru industria petrolieră și a gazului natural

75.180.10 Mașini și utilaje pentru exploatare și extracție

EN 16808:2020

Petroleum, petrochemical and natural gas industries - Safety of machineries - Manual elevators

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

75.200 Mașini și utilaje pentru transportul produselor petroliere și a gazului natural

EN 12514:2020

Components for supply systems for consuming units with liquid fuels

doa: 2020-11-30 dop: 2021-02-28
dow: 2022-05-31

77.040 Încercările metalelor

77.040.99 Alte metode de încercări ale metalelor

EN ISO 4499-1:2020

Hardmetals - Metallographic determination of microstructure - Part 1: Photomicrographs and description (ISO 4499-1:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN ISO 4499-2:2020

Hardmetals - Metallographic determination of microstructure - Part 2: Measurement of WC grain size (ISO 4499-2:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

77.160 Metalurgia pulberilor

EN ISO 4499-1:2020

Hardmetals - Metallographic determination of microstructure - Part 1: Photomicrographs and description (ISO 4499-1:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN ISO 4499-2:2020

Hardmetals - Metallographic determination of microstructure - Part 2: Measurement of WC grain size (ISO 4499-2:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

83.120 Materiale plastice armate

EN ISO 10350-2:2020

Plastics - Acquisition and presentation of comparable single-point data - Part 2: Long-fibre-reinforced plastics (ISO 10350-2:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

83.140 Produse din cauciuc și materiale plastice

83.140.40 Furtunuri flexibile

EN ISO 3949:2020

Plastics hoses and hose assemblies - Textile-reinforced types for hydraulic applications - Specification (ISO 3949:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

83.140.99 Alte produse din cauciuc și materiale plastice

EN 12608-1:2016+A1:2020

Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors - Classification, requirements and test methods - Part 1: Non-coated PVC-U profiles with light coloured surfaces

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

85.060 Hârtie și carton

CEN/TS 17497:2020

Pulp, paper and paperboard - Determination of bisphenol A in extracts from paper and paperboard

doa: 2020-11-30 dop: dow:

87.060 Ingrediente pentru vopsele

87.060.20 Lianți

EN ISO 4625-1:2020

Binders for paints and varnishes - Determination of softening point - Part 1: Ring-and-ball method (ISO 4625-1:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

91.010 Construcții civile în general

91.010.01 Construcții în general

EN ISO 19650-3:2020

Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 3: Operational phase of the assets (ISO 19650-3:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

91.060 Elemente ale construcțiilor

91.060.30 Plafoane. Planșee. Scări

EN ISO 16283-2:2020

Acoustics - Field measurement of sound insulation in buildings and of building elements - Part 2: Impact sound insulation (ISO 16283-2:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

91.060.50 Uși și ferestre

EN 12046-1:2020

Operating forces - Test method - Part 1: Windows

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN 12608-1:2016+A1:2020

Unplasticized poly(vinyl chloride) (PVC-U) profiles for the fabrication of windows and doors - Classification, requirements and test methods - Part 1: Non-coated PVC-U profiles with light coloured surfaces

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

EN 13115:2020

Windows - Classification of mechanical properties - Racking, torsion and operating forces

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

91.100 Materiale de construcții

91.100.50 Lianți. Materiale pentru etanșare

CEN/TR 17499:2020

Bitumen and bituminous binders - Examples for CE Marking and Declaration of Performances (DoP)

doa: dop: dow:

91.120 Protecția exterioară și interioară a clădirilor

91.120.20 Acustică în clădiri. Izolație fonică

EN ISO 16283-2:2020

Acoustics - Field measurement of sound insulation in buildings and of building elements - Part 2: Impact sound insulation (ISO 16283-2:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

91.140 Instalații în clădiri

91.140.30 Ventilație și climatizare

EN 1366-1:2014+A1:2020

Fire resistance tests for service installations - Part 1: Ventilation ducts

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

91.190 Accesorii pentru construcții

EN 12046-1:2020

Operating forces - Test method - Part 1: Windows

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

93.010 Construcții civile în general

EN ISO 19650-3:2020

Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 3: Operational phase of the assets (ISO 19650-3:2020)

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

93.080 Ingineria drumurilor

93.080.30 Mașini și utilaje pentru construcția de drumuri

EN 16303:2020

Road restraint systems - Validation and verification process for the use of virtual testing in crash testing against vehicle restraint system

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28

97.195 Obiecte de artă și produse din industria de artizanat. Bunuri culturale și patrimoniu cultural

EN 17429:2020

Conservation of cultural heritage - Procurement of conservation services and works

doa: 2020-11-30 dop: 2021-02-28
dow: 2021-02-28



**STANDARDE / DOCUMENTE DE STANDARDIZARE EUROPENE
CENELEC APROBATE**

În perioada 2021.02.01 – 2021.02.28

EN IEC 62859:2020

Nuclear power plants - Instrumentation and control systems - Requirements for coordinating safety and cybersecurity

doa: 2021-01-20 dop: 2021-07-20
dow: 2023-07-20

01.040 Vocabulare

01.040.01 Generalități. Terminologie. Standardizare. Documentare (Vocabulare)

EN IEC 62656-8:2020

Standardized product ontology register and transfer by data parcels - Part 8: Web service interface for data parcels

doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

01.110 Documentație tehnică de produs

EN IEC 62656-8:2020

Standardized product ontology register and transfer by data parcels - Part 8: Web service interface for data parcels

doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

03.220 Transport

03.220.20 Transport rutier

CEN/TR 17464:2020

Space - Use of GNSS-based positioning for road Intelligent Transport System (ITS) - Security attacks modelling and definition of performance features and metrics related to security

doa: dop: dow:

11.040 Echipament medical

EN 62366-1:2015/A1:2020

Medical devices - Part 1: Application of usability engineering to medical devices

doa: 2020-10-22 dop: 2021-04-22
dow: 2023-07-22

13.310 Protecția împotriva crimei

EN 50131-2-4:2020

Alarm systems - Intrusion and hold-up systems - Part 2-4: Requirements for combined passive infrared and microwave detectors

doa: 2020-12-30 dop: 2021-06-30
dow: 2023-06-30

17.140 Acustică și măsurări acustice

17.140.50 Electroacustică

EN IEC 60263:2020

Scales and sizes for plotting frequency characteristics and polar diagrams

doa: 2020-10-31 dop: 2021-05-01
dow: 2023-07-31

17.220 Electricitate. Magnetism. Măsurări electrice și magnetice

17.220.20 Măsurări de mărimi electrice și magnetice

EN IEC 61788-26:2020

Superconductivity - Part 26: Critical current measurement - DC critical current of RE-Ba-Cu-O composite superconductors

doa: 2020-10-16 dop: 2021-04-16
dow: 2023-07-16

19.040 Încercări de mediu

EN IEC 60068-3-7:2020

Environmental testing - Part 3-7: Supporting documentation and guidance - Measurements in

temperature chambers for tests A (Cold) and B (Dry heat) (with load)

doa: 2020-11-11 dop: 2021-05-11
dow: 2023-08-11

19.080 Încercări electrice și electronice

EN IEC 61788-26:2020

Superconductivity - Part 26: Critical current measurement - DC critical current of RE-Ba-Cu-O composite superconductors

doa: 2020-10-16 dop: 2021-04-16
dow: 2023-07-16

25.040 Sisteme de automatizare industrială

25.040.40 Măsurarea și controlul proceselor industriale

EN IEC 61804-3:2020

Devices and integration in enterprise systems - Function blocks (FB) for process control and electronic device description language (EDDL) - Part 3: EDDL syntax and semantics

doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

EN IEC 61804-4:2020

Devices and integration in enterprise systems - Function blocks (FB) for process control and electronic device description language (EDDL) - Part 4: EDD interpretation

doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

EN IEC 61804-5:2020

Devices and integration in enterprise systems - Function blocks (FB) for process control and electronic device description language (EDDL) - Part 5: EDDL Builtin library

doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

EN IEC 62443-3-2:2020

Security for industrial automation and control systems - Part 3-2: Security risk assessment for system design

doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

EN IEC 62541-11:2020

OPC Unified Architecture - Part 11: Historical Access

doa: 2020-10-28 dop: 2021-04-28
dow: 2023-07-28

EN IEC 62541-12:2020

OPC unified architecture - Part 12: Discovery and global services

doa: 2020-10-21 dop: 2021-04-21
dow: 2023-07-21

EN IEC 62541-7:2020

OPC unified architecture - Part 7: Profiles

doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

EN IEC 62541-8:2020

OPC Unified Architecture - Part 8: Data Access

doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

EN IEC 62541-9:2020

OPC Unified Architecture - Part 9: Alarms and Conditions

doa: 2020-10-23 dop: 2021-04-23
dow: 2023-07-23

EN IEC 62714-4:2020

Engineering data exchange format for use in industrial automation systems engineering - Automation markup language - Part 4: Logic

doa: 2020-10-21 dop: 2021-04-21
dow: 2023-07-21

25.180 Cuptoare industriale

25.180.10 Cuptoare electrice

EN IEC 60779:2020

Installations for electroheating and electromagnetic processing - Test methods for electroslag remelting furnaces

doa: 2020-10-21 dop: 2021-04-21
dow: 2023-07-21

27.160 Energie solară

EN IEC 61701:2020

Photovoltaic (PV) modules - Salt mist corrosion testing

doa: 2020-10-16 dop: 2021-04-16
dow: 2023-07-16

27.180 Energie eoliană

EN IEC 61400-5:2020

Wind energy generation systems - Part 5: Wind turbine blades

doa: 2020-10-21 dop: 2021-04-21
dow: 2023-07-21

29.020 Electrotehnică în general

EN IEC 60068-3-7:2020

Environmental testing - Part 3-7: Supporting documentation and guidance - Measurements in temperature chambers for tests A (Cold) and B (Dry heat) (with load)

doa: 2020-11-11 dop: 2021-05-11
dow: 2023-08-11

29.040 Fluide electroizolante

29.040.10 Uleiuri electroizolante

EN IEC 60296:2020

Fluids for electrotechnical applications - Mineral insulating oils for electrical equipment
doa: 2020-10-31 dop: 2021-05-01
dow: 2023-07-31

29.050 Supraconductivitate și materiale conductoare

EN IEC 61788-26:2020

Superconductivity - Part 26: Critical current measurement - DC critical current of RE-Ba-Cu-O composite superconductors
doa: 2020-10-16 dop: 2021-04-16
dow: 2023-07-16

29.060 Conductoare și cabluri electrice

29.060.10 Conductoare

EN IEC 60317-0-6:2020

Specifications for particular types of winding wires - Part 0-6: General requirements - Glass-fibre wound resin or varnish impregnated, bare or enamelled round copper wire
doa: 2020-10-14 dop: 2021-04-14
dow: 2023-07-14

EN IEC 60317-60-1:2020

Specifications for particular types of winding wires - Part 60-1: Polyester glass-fibre wound fused, unvarnished, bare or enamelled rectangular copper wire, temperature index 155
doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

EN IEC 60317-60-2:2020

Specifications for particular types of winding wires - Part 60-2: Polyester glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 155
doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

EN IEC 60317-70-1:2020

Specifications for particular types of winding wires - Part 70-1: Polyester glass-fibre wound unvarnished and fused, bare or enamelled round copper wire, temperature index 155
doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

EN IEC 60317-70-2:2020

Specifications for particular types of winding wires - Part 70-2: Polyester glass-fibre wound resin/varnish impregnated, bare or enamelled round copper wire, temperature index 155
doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

EN IEC 60317-82:2020

Specifications for particular types of winding wires - Part 82: Polyesterimide enamelled rectangular

copper wire, class 200

doa: 2020-10-15 dop: 2021-04-15
dow: 2023-07-15

29.120 Accesorii electrice

29.120.40 Întreruptoare

EN IEC 63180:2020

Methods of measurement and declaration of the detection range of detectors - Passive infrared detectors for major and minor motion detection
doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

29.130 Aparate de conectare și comandă

29.130.20 Aparate de conectare și comandă de joasă tensiune

CLC IEC/TR 63201:2020

Low-voltage switchgear and controlgear - Guidance for the development of embedded software
doa: dop: dow:

CLC/IEC TR 63216:2020

Low-voltage switchgear and controlgear - Electromagnetic compatibility assessment for switchgear and controlgear and their assemblies
doa: dop: dow:

29.140 Lămpi și accesorii

29.140.50 Instalații pentru iluminat

EN IEC 63067:2020

Electrical installations for lighting and beaconing of aerodromes - Connecting devices - General requirements and tests
doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

29.280 Echipament pentru tracțiune electrică

EN 50367:2020

Railway applications - Fixed installations and rolling stock - Criteria to achieve technical compatibility between pantographs and overhead contact line
doa: 2021-01-27 dop: 2021-07-27
dow: 2023-07-27

31.020 Componente electronice în general

EN IEC 62435-8:2020

Electronic components - Long-term storage of electronic semiconductor devices - Part 8: Passive electronic devices
doa: 2020-11-12 dop: 2021-05-12
dow: 2023-08-12

33.060 Radiocomunicații

33.060.30 Radiorelee și sisteme fixe de comunicații prin satelit

doa: 2020-10-31 dop: 2021-05-01
dow: 2023-07-31

CEN/TR 17464:2020

Space - Use of GNSS-based positioning for road Intelligent Transport System (ITS) - Security attacks modelling and definition of performance features and metrics related to security
doa: dop: dow:

33.100 Compatibilitate electromagnetă (EMC)**33.100.10 Emisie****EN IEC 55016-1-4:2019/A1:2020**

Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements
doa: 2020-10-20 dop: 2021-04-20
dow: 2023-07-20

33.100.20 Imunitate**EN IEC 55016-1-4:2019/A1:2020**

Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements
doa: 2020-10-20 dop: 2021-04-20
dow: 2023-07-20

33.160 Tehnici audio, video și audiovizuale**33.160.50 Accesorii****EN IEC 63034:2020**

Microspeakers
doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

33.180 Comunicații prin fibră optică**33.180.01 Sisteme cu fibră optică în general****EN IEC 62614-1:2020**

Fibre optics - Multimode launch conditions - Part 1: Launch condition requirements for measuring multimode attenuation
doa: 2020-10-15 dop: 2021-04-15
dow: 2023-07-15

33.180.10 Fibre optice și cabluri**EN IEC 60794-1-215:2020**

Optical fibre cables - Part 1-215: Generic specification - Basic optical cable test procedures - Environmental test methods - Cable external freezing test, Method F15

33.180.20 Dispozitive de interconectare prin fibre optice**EN IEC 61753-1:2018/A1:2020**

Fibre optic interconnecting devices and passive components - Performance standard - Part 1: General and guidance
doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

33.200 Telecomandă. Teleconducere**EN IEC 61970-301:2020**

Energy management system application program interface (EMS-API) - Part 301: Common information model (CIM) base
doa: 2020-10-31 dop: 2021-05-01
dow: 2023-07-31

35.030 Securitatea IT**EN IEC 62443-3-2:2020**

Security for industrial automation and control systems - Part 3-2: Security risk assessment for system design
doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

35.100 Interconexiunea sistemelor deschise (OSI)**35.100.05 Aplicații multistrat****EN IEC 62541-11:2020**

OPC Unified Architecture - Part 11: Historical Access
doa: 2020-10-28 dop: 2021-04-28
dow: 2023-07-28

EN IEC 62541-7:2020

OPC unified architecture - Part 7: Profiles
doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

EN IEC 62541-8:2020

OPC Unified Architecture - Part 8: Data Access
doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

EN IEC 62541-9:2020

OPC Unified Architecture - Part 9: Alarms and Conditions
doa: 2020-10-23 dop: 2021-04-23
dow: 2023-07-23

35.240 Aplicații privind tehnologia informației**35.240.50 Aplicații IT în industrie**

EN IEC 61804-3:2020

Devices and integration in enterprise systems -
Function blocks (FB) for process control and
electronic device description language (EDDL) -
Part 3: EDDL syntax and semantics
doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

EN IEC 61804-4:2020

Devices and integration in enterprise systems -
Function blocks (FB) for process control and
electronic device description language (EDDL) -
Part 4: EDD interpretation
doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

EN IEC 61804-5:2020

Devices and intergration in enterprise systems -
Function blocks (FB) for process control and
electronic device description language (EDDL) -
Part 5: EDDL Built-in library
doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

35.240.60 Aplicații IT în transport

CEN/TR 17464:2020

Space - Use of GNSS-based positioning for road
Intelligent Transport System (ITS) - Security
attacks modelling and definition of performance
features and metrics related to security
doa: dop: dow:

67.040 Industria alimentară în general

EN IEC 63169:2020

Electrical household and similar cooling and
freezing appliances - Food preservation
doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27

91.140 Instalații în clădiri

91.140.65 Aparate de încălzire a apei

EN 50193-1:2016/A1:2020

Electric instantaneous water heaters - Methods for

measuring the Performance - Part 1: General
requirements

doa: 2020-12-17 dop: 2021-06-17
dow: 2023-06-17

EN 50193-2-1:2016/A1:2020

Electric instantaneous water heaters - Part 2-1:
Methods for measuring the performance -
Multifunctional electric instantaneous water
heaters

doa: 2020-12-17 dop: 2021-06-17
dow: 2023-06-17

EN 50193-2-2:2016/A1:2020

Electric instantaneous water heaters - Part 2-2:
Performance requirements - Single point of use
electric instantaneous showers - Efficiency

doa: 2020-12-17 dop: 2021-06-17
dow: 2023-06-17

EN 50440:2015/A1:2020

Efficiency of domestic electrical storage water
heaters and testing methods

doa: 2020-12-17 dop: 2021-06-17
dow: 2023-06-17

93.120 Construcția de aeroporturi

EN IEC 63067:2020

Electrical installations for lighting and beaconing
of aerodromes - Connecting devices - General
requirements and tests

doa: 2020-10-29 dop: 2021-04-29
dow: 2023-07-29

97.040 Echipament de bucătărie

97.040.30 Aparate de răcit de uz casnic

EN IEC 63169:2020

Electrical household and similar cooling and
freezing appliances - Food preservation

doa: 2020-10-27 dop: 2021-04-27
dow: 2023-07-27



**STANDARDE / DOCUMENTE DE STANDARDIZARE EUROPENE
ETSI APROBATE**

În perioada 2021.02.01 – 2021.02.28

GS NFV-SOL 002 V2.8.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 2;
Protocols and Data Models; RESTful protocols
specification for the Ve-Vnfm Reference Point

GS NFV-SOL 002 V3.3.1:2020

Comitet Tehnic ETSI: NFV SOL

Network Functions Virtualisation (NFV) Release 3;
Protocols and Data Models; RESTful protocols
specification for the Ve-Vnfm Reference Point

GS NFV-SOL 003 V2.8.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 2;
Protocols and Data Models; RESTful protocols

specification for the Or-Vnfm Reference Point

GS NFV-SOL 003 V3.3.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 3;
Protocols and Data Models; RESTful protocols
specification for the Or-Vnfm Reference Point

GS NFV-SOL 004 V2.8.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 2;
Protocols and Data Models; VNF Package and
PNFD Archive specification

GS NFV-SOL 004 V3.3.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 3;
Protocols and Data Models; VNF Package and
PNFD Archive specification

GS QKD 004 V2.1.1:2020

Comitet Tehnic ETSI: QKD
Quantum Key Distribution (QKD); Application
Interface

GS NFV-SOL 006 V2.8.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 2;
Protocols and Data Models; NFV Descriptors
based on YANG Specification

GS NFV-SOL 006 V3.3.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 3;
Protocols and Data Models; NFV descriptors
based on YANG Specification

GS NFV-SOL 007 V2.8.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 2;
Protocols and Data Models; Network Service
Descriptor File Structure Specification

GS NFV-SOL 007 V3.3.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 3;
Protocols and Data Models; Network Service
Descriptor File Structure Specification

GS CIM 009 V1.3.1:2020

Comitet Tehnic ETSI: CIM
Context Information Management (CIM); NGSI-LD
API

GS NFV-SOL 014 V2.8.1:2020

Comitet Tehnic ETSI: NFV SOL
Network Functions Virtualisation (NFV) Release 2;
Protocols and Data Models; YAML data model
specification for descriptor-based virtualised
resource management

GS NFV-SOL 016 V2.8.1:2020

Comitet Tehnic ETSI: NFV SOL

Network Functions Virtualisation (NFV) Release 2;
Protocols and Data Models; NFV-MANO
procedures specification

GR NFV-EVE 017 V1.1.1:2020

Comitet Tehnic ETSI: NFV EVE
Network Functions Virtualisation (NFV);
Management and Orchestration; Report on the
support of real-time/ultra-low latency aspects in
NFV related to service and network handling

GS NFV-IFA 033 V4.1.1:2020

Comitet Tehnic ETSI: NFV IFA
Network Functions Virtualisation (NFV) Release 4;
Management and Orchestration; Sc-Or, Sc-Vnfm,
Sc-Vi reference points - Interface and Information
Model Specification

TS 101 756 V2.4.1:2020

Comitet Tehnic ETSI: BROADCAST
Digital Audio Broadcasting (DAB); Registered
Tables

TS 102 232-2 V3.12.1:2020

Comitet Tehnic ETSI: LI
Lawful Interception (LI); Handover Interface and
Service-Specific Details (SSD) for IP delivery; Part
2: Service-specific details for messaging services

TS 102 232-3 V3.8.1:2020

Comitet Tehnic ETSI: LI
Lawful Interception (LI); Handover Interface and
Service-Specific Details (SSD) for IP delivery; Part
3: Service-specific details for internet access
services

TS 102 232-5 V3.12.1:2020

Comitet Tehnic ETSI: LI
Lawful Interception (LI); Handover Interface and
Service-Specific Details (SSD) for IP delivery; Part
5: Service-specific details for IP Multimedia
services

TS 102 232-7 V3.8.1:2020

Comitet Tehnic ETSI: LI
Lawful Interception (LI); Handover Interface and
Service-Specific Details (SSD) for IP delivery; Part
7: Service-specific details for Mobile Services

TS 102 636-4-2 V1.3.1:2020

Comitet Tehnic ETSI: ITS WG3
Intelligent Transport Systems (ITS); Vehicular
Communications; GeoNetworking; Part 4:
Geographical addressing and forwarding for point-
to-point and point-to-multipoint communications;
Sub-part 2: Media-dependent functionalities for
ITS-G5

TS 102 636-4-3 V1.1.1:2020

Comitet Tehnic ETSI: ITS WG3
Intelligent Transport Systems (ITS); Vehicular
Communications; GeoNetworking; Part 4:
Geographical addressing and forwarding for point-

to-point and point-to-multipoint communications;
Sub-part 3: Media-dependent functionalities for
LTE-V2X

TS 102 657 V1.26.1:2020

Comitet Tehnic ETSI: LI
Lawful Interception (LI); Retained data handling;
Handover interface for the request and delivery of
retained data

TS 102 818 V3.3.1:2020

Comitet Tehnic ETSI: BROADCASTAS
Hybrid Digital Radio (DAB, DRM, RadioDNS);
XML Specification for Service and Programme
Information (SPI)

TS 103 120 V1.6.1:2020

Comitet Tehnic ETSI: LI
Lawful Interception (LI); Interface for warrant
information

TS 103 176 V2.4.1:2020

Comitet Tehnic ETSI: BROADCASTAS
Digital Audio Broadcasting (DAB); Rules of
implementation; Service information features

TS 103 221-1 V1.7.1:2020

Comitet Tehnic ETSI: LI
Lawful Interception (LI); Internal Network
Interfaces; Part 1: X1

TS 103 221-2 V1.3.1:2020

Comitet Tehnic ETSI: LI
Lawful Interception (LI); Internal Network
Interfaces; Part 2: X2/X3

TR 103 459 V1.2.1:2020

Comitet Tehnic ETSI: RT
Rail Telecommunications (RT); Future Rail Mobile
Communication System (FRMCS); Study on
system architecture

TS 103 461 V1.2.1:2020

Comitet Tehnic ETSI: BROADCASTAS
Digital Audio Broadcasting (DAB); Domestic and
in-vehicle digital radio receivers; Minimum
requirements and Test specifications for
technologies and products

TR 103 477 V1.2.1:2020

Comitet Tehnic ETSI: eHEALTH
eHEALTH; Standardization use cases for eHealth

TS 103 485 V1.1.1:2020

Comitet Tehnic ETSI: CYBER
CYBER; Mechanisms for privacy assurance and
verification

TS 103 558 V1.2.1:2020

Comitet Tehnic ETSI: STQ
Speech and multimedia Transmission Quality
(STQ); Methods for objective assessment of
listening effort

TS 103 653-1 V1.1.1:2020

Comitet Tehnic ETSI: INT
Core Network and Interoperability Testing (INT);
VoLTE/ViLTE interoperability test description over
4G/early 5G in physical/virtual environments;
(3GPP, Release 15); Part 1: Test Purposes
(TP) and Protocol Implementation Conformance
Statement (PICS) for VoLTE/ViLTE
interoperability

TS 103 653-2 V1.1.1:2020

Comitet Tehnic ETSI: INT
Core Network and Interoperability Testing (INT);
VoLTE/ViLTE interoperability test description over
4G/early 5G in physical/virtual environments;
(3GPP, Release 15); Part 2: Test Descriptions
for VoLTE/ViLTE interoperability

TS 103 653-3 V1.1.1:2020

Comitet Tehnic ETSI: INT
Core Network and Interoperability Testing (INT);
VoLTE/ViLTE interoperability test description over
4G/early 5G in physical/virtual environments;
(3GPP, Release 15); Part 3: Abstract Test Suit
(ATS) and partial Protocol Implementation eXtra
Information for Testing (PIXIT) for VoLTE/ViLTE
interoperability

TS 103 673 V1.1.1:2020

Comitet Tehnic ETSI: SmartM2M
SmartM2M; SAREF Development Framework and
Workflow, Streamlining the Development of
SAREF and its Extensions

TS 121 101 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System
(UMTS); Technical Specifications and Technical
Reports for a UTRAN-based 3GPP system (3GPP
TS 21.101 version 16.0.0 Release 16)

TS 121 201 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Technical Specifications and Technical
Reports for an Evolved Packet System (EPS)
based 3GPP system (3GPP TS 21.201 version
16.0.0 Release 16)

TS 121 202 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Technical Specifications
and Technical Reports relating to the Common IP
Multimedia Subsystem (IMS) (3GPP TS 21.202
version 16.0.0 Release 16)

TS 121 205 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Technical Specifications and Technical
Reports for a 5G based 3GPP system (3GPP TS
21.205 version 16.0.0 Release 16)

TS 122 001 V16.0.1:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN) (3GPP TS 22.001 version 16.0.1 Release 16)

TS 122 002 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN) (3GPP TS 22.002 version 16.0.0 Release 16)

TS 122 003 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Circuit Teleservices supported by a Public Land Mobile Network (PLMN) (3GPP TS 22.003 version 16.0.0 Release 16)

TS 122 004 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General on supplementary services (3GPP TS 22.004 version 16.0.0 Release 16)

TS 122 016 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; International Mobile station Equipment Identities (IMEI) (3GPP TS 22.016 version 16.0.0 Release 16)

TS 122 022 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Personalisation of Mobile Equipment (ME); Mobile functionality specification (3GPP TS 22.022 version 16.0.0 Release 16)

TS 122 024 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Description of Charge Advice Information (CAI) (3GPP TS 22.024 version 16.0.0 Release 16)

TS 122 030 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications

System (UMTS); LTE; Man-Machine Interface (MMI) of the User Equipment (UE) (3GPP TS 22.030 version 16.0.0 Release 16)

TS 122 031 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Fraud Information Gathering System (FIGS); Service description; Stage 1 (3GPP TS 22.031 version 16.0.0 Release 16)

TS 122 032 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Immediate Service Termination (IST); Service description; Stage 1 (3GPP TS 22.032 version 16.0.0 Release 16)

TS 122 034 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); High Speed Circuit Switched Data (HSCSD); Stage 1 (3GPP TS 22.034 version 16.0.0 Release 16)

TS 122 038 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; (U)SIM Application Toolkit (USAT); Service description; Stage 1 (3GPP TS 22.038 version 16.0.0 Release 16)

TS 122 041 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Operator Determined Barring (ODB) (3GPP TS 22.041 version 16.0.0 Release 16)

TS 122 042 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Network Identity and TimeZone (NITZ); Service description; Stage 1 (3GPP TS 22.042 version 16.0.0 Release 16)

TS 122 053 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Tandem Free Operation (TFO); Service description; Stage 1 (3GPP TS 22.053 version 16.0.0 Release 16)

TS 122 057 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA

Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mobile Execution Environment (MExE); Service description; Stage 1 (3GPP TS 22.057 version 16.0.0 Release 16)

TS 122 060 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); General Packet Radio Service (GPRS); Service description; Stage 1 (3GPP TS 22.060 version 16.0.0 Release 16)

TS 122 067 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); enhanced Multi Level Precedence and Pre-emption service (eMLPP); Stage 1 (3GPP TS 22.067 version 16.0.0 Release 16)

TS 122 071 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Location Services (LCS); Service description; Stage 1 (3GPP TS 22.071 version 16.0.0 Release 16)

TS 122 072 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Deflection (CD) service description; Stage 1 (3GPP TS 22.072 version 16.0.0 Release 16)

TS 122 076 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Noise suppression for the AMR codec; Service description; Stage 1 (3GPP TS 22.076 version 16.0.0 Release 16)

TS 122 078 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Customised Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1 (3GPP TS 22.078 version 16.0.0 Release 16)

TS 122 079 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Support of Optimal Routing (SOR); Service definition; Stage 1 (3GPP TS 22.079 version 16.0.0 Release 16)

TS 122 081 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Line Identification supplementary services; Stage 1 (3GPP TS 22.081 version 16.0.0 Release 16)

TS 122 082 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Forwarding (CF) Supplementary Services; Stage 1 (3GPP TS 22.082 version 16.0.0 Release 16)

TS 122 083 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Waiting (CW) and Call Holding (HOLD); Supplementary Services; Stage 1 (3GPP TS 22.083 version 16.0.0 Release 16)

TS 122 084 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); MultiParty (MPty) supplementary service; Stage 1 (3GPP TS 22.084 version 16.0.0 Release 16)

TS 122 085 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Closed User Group (CUG) supplementary services; Stage 1 (3GPP TS 22.085 version 16.0.0 Release 16)

TS 122 086 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Advice of Charge (AoC) supplementary services; Stage 1 (3GPP TS 22.086 version 16.0.0 Release 16)

TS 122 087 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); User-to-User Signalling (UUS); Service description; Stage 1 (3GPP TS 22.087 version 16.0.0 Release 16)

TS 122 088 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Barring (CB) supplementary services; Stage 1 (3GPP TS 22.088 version 16.0.0 Release 16)

TS 122 090 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Unstructured Supplementary Service Data (USSD); Stage 1 (3GPP TS 22.090 version 16.0.0 Release 16)

TS 122 091 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Explicit Call Transfer (ECT) supplementary service; Stage 1 (3GPP TS 22.091 version 16.0.0 Release 16)

TS 122 093 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1 (3GPP TS 22.093 version 16.0.0 Release 16)

TS 122 094 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Follow Me service description; Stage 1 (3GPP TS 22.094 version 16.0.0 Release 16)

TS 122 096 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Name identification supplementary services; Stage 1 (3GPP TS 22.096 version 16.0.0 Release 16)

TS 122 097 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Multiple Subscriber Profile (MSP) Phase 2; Service description; Stage 1 (3GPP TS 22.097 version 16.0.0 Release 16)

TS 122 105 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Services and service capabilities (3GPP TS 22.105 version 16.0.0 Release 16)

TS 122 129 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Service aspects; Handover requirements between UTRAN and GERAN or other radio systems (3GPP TS 22.129 version

16.0.0 Release 16)

TS 122 135 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Universal Mobile Telecommunications System (UMTS); LTE; Multicall; Service description; Stage 1 (3GPP TS 22.135 version 16.0.0 Release 16)

TS 122 140 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Multimedia Messaging Service (MMS); Stage 1 (3GPP TS 22.140 version 16.0.0 Release 16)

TS 122 141 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Presence service; Stage 1 (3GPP TS 22.141 version 16.0.0 Release 16)

TS 122 142 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Value Added Services (VAS) for Short Message Service (SMS) requirements (3GPP TS 22.142 version 16.0.0 Release 16)

TS 122 146 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Multimedia Broadcast/Multicast Service (MBMS); Stage 1 (3GPP TS 22.146 version 16.0.0 Release 16)

TS 122 174 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Push Service; Service aspects; Stage 1 (3GPP TS 22.174 version 16.0.0 Release 16)

TS 122 182 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Customized Alerting Tones (CAT) requirements; Stage 1 (3GPP TS 22.182 version 16.0.0 Release 16)

TS 122 183 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Customized Ringing Signal (CRS) requirements; Stage 1 (3GPP TS 22.183 version 16.0.0 Release 16)

TS 122 185 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Service requirements for V2X services
(3GPP TS 22.185 version 16.0.0 Release 16)

TS 122 220 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System
(UMTS); Service requirements for Home Node B
(HNB) and Home eNode B (HeNB) (3GPP TS
22.220 version 16.0.0 Release 16)

TS 122 226 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Global Text Telephony
(GTT); Stage 1 (3GPP TS 22.226 version 16.0.0
Release 16)

TS 122 233 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Transparent end-to-end
packet-switched streaming service; Stage 1
(3GPP TS 22.233 version 16.0.0 Release 16)

TS 122 240 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Service requirements for
3GPP Generic User Profile (GUP); Stage 1
(3GPP TS 22.240 version 16.0.0 Release 16)

TS 122 242 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System
(UMTS); LTE; Digital Rights Management (DRM);
Stage 1 (3GPP TS 22.242 version 16.0.0 Release
16)

TS 122 243 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Speech recognition
framework for automated voice services; Stage 1
(3GPP TS 22.243 version 16.0.0 Release 16)

TS 122 246 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Multimedia
Broadcast/Multicast Service (MBMS) user
services; Stage 1 (3GPP TS 22.246 version
16.0.0 Release 16)

TS 122 250 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications

System (UMTS); LTE; IP Multimedia Subsystem
(IMS) Group Management; Stage 1 (3GPP TS
22.250 version 16.0.0 Release 16)

TS 122 259 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Service requirements for
Personal Network Management (PNM); Stage 1
(3GPP TS 22.259 version 16.0.0 Release 16)

TS 122 261 V16.12.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Service requirements for the 5G system
(3GPP TS 22.261 version 16.12.0 Release 16)

TS 122 279 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System
(UMTS); LTE; Combined Circuit Switched (CS)
and IP Multimedia Subsystem (IMS) sessions;
Stage 1 (3GPP TS 22.279 version 16.0.0 Release
16)

TS 122 280 V16.8.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; 5G; Mission Critical Services Common
Requirements (MCCoRe); Stage 1 (3GPP TS
22.280 version 16.8.0 Release 16)

TS 122 340 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; IP Multimedia Subsystem
(IMS) messaging; Stage 1 (3GPP TS 22.340
version 16.0.0 Release 16)

TS 122 346 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System
(UMTS); LTE; Isolated Evolved Universal
Terrestrial Radio Access Network (E-UTRAN)
operation for public safety; Stage 1 (3GPP TS
22.346 version 16.0.0 Release 16)

TS 122 368 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Service requirements for
Machine-Type Communications (MTC); Stage 1
(3GPP TS 22.368 version 16.0.0 Release 16)

TR 122 903 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase
2+) (GSM); Universal Mobile Telecommunications
System (UMTS); LTE; Study on Videotelephony
teleservice (3GPP TR 22.903 version 16.0.0
Release 16)

TR 122 906 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Universal Mobile Telecommunications System (UMTS); LTE; Study on IMS based peer-to-peer content distribution services (3GPP TR 22.906 version 16.0.0 Release 16)

TR 122 908 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Universal Mobile Telecommunications System (UMTS); LTE; Study on Paging Permission with Access Control (PPAC) (3GPP TR 22.908 version 16.0.0 Release 16)

TR 122 912 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Study into network selection requirements for non-3GPP access (3GPP TR 22.912 version 16.0.0 Release 16)

TR 122 936 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Multi-system terminals (3GPP TR 22.936 version 16.0.0 Release 16)

TR 122 940 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS) messaging (3GPP TR 22.940 version 16.0.0 Release 16)

TR 122 942 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Study on Value Added Services (VAS) for Short Message Service (SMS) (3GPP TR 22.942 version 16.0.0 Release 16)

TR 122 944 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Report on service requirements for UE functionality split (3GPP TR 22.944 version 16.0.0 Release 16)

TR 122 947 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Universal Mobile Telecommunications System (UMTS); Study on Personal Broadcast Service (PBS) (3GPP TR 22.947 version 16.0.0 Release 16)

TR 122 948 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Study of requirements of IP-Multimedia Subsystem (IMS) convergent multimedia conferencing (3GPP TR 22.948 version 16.0.0 Release 16)

TR 122 949 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Study on a generalized privacy capability (3GPP TR 22.949 version 16.0.0 Release 16)

TR 122 950 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Priority service feasibility study (3GPP TR 22.950 version 16.0.0 Release 16)

TR 122 951 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Service aspects and requirements for network sharing (3GPP TR 22.951 version 16.0.0 Release 16)

TR 122 952 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Priority service guide (3GPP TR 22.952 version 16.0.0 Release 16)

TR 122 967 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Transferring of emergency call data (3GPP TR 22.967 version 16.0.0 Release 16)

TR 122 968 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Study for requirements for a Public Warning System (PWS) service (3GPP TR 22.968 version 16.0.0 Release 16)

TR 122 973 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; IMS Multimedia Telephony service; and supplementary services (3GPP TR 22.973 version 16.0.0 Release 16)

TR 122 977 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA

Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Feasibility study for speech-enabled services (3GPP TR 22.977 version 16.0.0 Release 16)

TR 122 978 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; All-IP network (AIPN) feasibility study (3GPP TR 22.978 version 16.0.0 Release 16)

TR 122 979 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Feasibility study on combined Circuit Switched (CS) calls and IP Multimedia Subsystem (IMS) sessions (3GPP TR 22.979 version 16.0.0 Release 16)

TR 122 980 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Network composition feasibility study (3GPP TR 22.980 version 16.0.0 Release 16)

TR 122 982 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Study of Customised Alerting Tone (CAT) requirements (3GPP TR 22.982 version 16.0.0 Release 16)

TR 122 983 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Services alignment and migration (3GPP TR 22.983 version 16.0.0 Release 16)

TR 122 985 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); Service requirements for the User Data Convergence (UDC) (3GPP TR 22.985 version 16.0.0 Release 16)

TR 122 986 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); Study on Service Specific Access Control (3GPP TR 22.986 version 16.0.0 Release 16)

TR 122 987 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Study of haptic services requirements (3GPP TR 22.987 version 16.0.0 Release 16)

TR 122 988 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Study on alternatives to E.164 for Machine-Type Communications (MTC) (3GPP TR 22.988 version 16.0.0 Release 16)

TS 123 031 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); 3G Security; Fraud Information Gathering System (FIGS); Technical realization; Stage 2 (3GPP TS 23.031 version 16.0.0 Release 16)

TS 123 035 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Immediate Service Termination (IST); Stage 2 (3GPP TS 23.035 version 16.0.0 Release 16)

TS 123 053 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Tandem Free Operation (TFO); Service description; Stage 2 (3GPP TS 23.053 version 16.0.0 Release 16)

TS 123 146 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); Technical realization of facsimile Group 3 non-transparent (3GPP TS 23.146 version 16.0.0 Release 16)

TS 123 172 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); Technical realization of Circuit Switched (CS) multimedia service UDI/RDI fallback and service modification; Stage 2 (3GPP TS 23.172 version 16.0.0 Release 16)

TS 123 202 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Circuit switched data bearer services (3GPP TS 23.202 version 16.0.0 Release 16)

TS 123 259 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Personal Network Management (PNM); Procedures and information flows; Stage 2 (3GPP TS 23.259 version 16.0.0 Release 16)

TS 124 022 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Radio Link Protocol (RLP) for circuit switched bearer and teleservices (3GPP TS 24.022 version 16.0.0 Release 16)

TS 124 259 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Personal Network Management (PNM); Stage 3 (3GPP TS 24.259 version 16.0.0 Release 16)

TS 124 301 V16.5.1:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3 (3GPP TS 24.301 version 16.5.1 Release 16)

TS 124 302 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks; Stage 3 (3GPP TS 24.302 version 16.4.0 Release 16)

TS 124 323 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; 3GPP IP Multimedia Subsystem (IMS) service level tracing Management Object (MO) (3GPP TS 24.323 version 16.0.0 Release 16)

TS 124 379 V13.15.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Mission Critical Push To Talk (MCPTT) call control; Protocol specification (3GPP TS 24.379 version 13.15.0 Release 13)

TS 124 379 V14.12.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Mission Critical Push To Talk (MCPTT) call control; Protocol specification (3GPP TS 24.379 version 14.12.0 Release 14)

TS 124 379 V15.8.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Mission Critical Push To Talk (MCPTT) call control; Protocol specification (3GPP TS 24.379 version 15.8.0 Release 15)

TS 124 379 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Mission Critical Push To Talk (MCPTT) call control; Protocol specification (3GPP TS 24.379 version 16.5.0 Release 16)

TS 124 483 V13.9.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Mission Critical Services (MCS) Management Object (MO) (3GPP TS 24.483 version 13.9.0 Release 13)

TS 124 483 V14.8.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Mission Critical Services (MCS) Management Object (MO) (3GPP TS 24.483 version 14.8.0 Release 14)

TS 124 483 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Mission Critical Services (MCS) Management Object (MO) (3GPP TS 24.483 version 15.6.0 Release 15)

TS 124 483 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Mission Critical Services (MCS) Management Object (MO) (3GPP TS 24.483 version 16.4.0 Release 16)

TS 124 501 V16.5.1:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3 (3GPP TS 24.501 version 16.5.1 Release 16)

TS 124 502 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Access to the 3GPP 5G Core Network (5GCN) via non-3GPP access networks (3GPP TS 24.502 version 15.6.0 Release 15)

TS 124 502 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Access to the 3GPP 5G Core Network (5GCN) via non-3GPP access networks (3GPP TS 24.502 version 16.4.0 Release 16)

TS 124 544 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Group Management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification (3GPP TS 24.544 version 16.1.0 Release 16)

TS 124 545 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Location Management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification (3GPP TS 24.545 version 16.1.0 Release 16)

TS 124 546 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Configuration management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification (3GPP TS 24.546 version 16.1.0 Release 16)

TS 124 547 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Identity management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification (3GPP TS 24.547 version 16.1.0 Release 16)

TS 124 548 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Network Resource Management - Service Enabler Architecture Layer for Verticals (SEAL); Protocol specification (3GPP TS 24.548 version 16.0.0 Release 16)

TS 124 571 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System (5GS); Control plane Location Services (LCS) procedures; Stage 3 (3GPP TS 24.571 version 16.1.0 Release 16)

TS 124 587 V16.1.1:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Vehicle-to-Everything (V2X) services in 5G System (5GS); Stage 3 (3GPP TS 24.587 version 16.1.1 Release 16)

TS 124 588 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; Vehicle-to-Everything (V2X) services in 5G System (5GS); User Equipment (UE) policies; Stage 3 (3GPP TS 24.588 version 16.1.0 Release 16)

TS 125 102 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); User Equipment (UE) radio transmission and reception (TDD) (3GPP TS 25.102 version 16.0.0 Release 16)

TS 125 105 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Base Station (BS) radio transmission and reception (TDD) (3GPP TS 25.105 version 16.0.0 Release 16)

TS 125 106 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRA repeater radio transmission and reception (3GPP TS 25.106 version 16.0.0 Release 16)

TS 125 111 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System

(UMTS); Location Measurement Unit (LMU) performance specification; User Equipment (UE) positioning in UTRAN (3GPP TS 25.111 version 16.0.0 Release 16)

TS 125 113 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Base station (BS) and repeater electromagnetic compatibility (EMC) (3GPP TS 25.113 version 16.0.0 Release 16)

TS 125 116 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRA repeater radio transmission and reception (LCR TDD) (3GPP TS 25.116 version 16.0.0 Release 16)

TS 125 142 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Base Station (BS) conformance testing (TDD) (3GPP TS 25.142 version 16.0.0 Release 16)

TS 125 143 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRA repeater conformance testing (3GPP TS 25.143 version 16.0.0 Release 16)

TS 125 153 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRA repeater conformance testing (LCR TDD) (3GPP TS 25.153 version 16.0.0 Release 16)

TS 125 171 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD) (3GPP TS 25.171 version 16.0.0 Release 16)

TS 125 172 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Requirements for support of Assisted Galileo and Additional Navigation Satellite Systems (A-GANSS) Frequency Division Duplex (FDD) (3GPP TS 25.172 version 16.0.0 Release 16)

TS 125 173 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Requirements for support of Assisted Galileo and Additional Navigation Satellite Systems (A-GANSS) Time Division Duplex (TDD) (3GPP TS 25.173 version 16.0.0 Release 16)

TS 125 402 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); Synchronisation in UTRAN Stage 2 (3GPP TS 25.402 version 16.0.0 Release 16)

TS 125 410 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iu interface: General aspects and principles (3GPP TS 25.410 version 16.0.0 Release 16)

TS 125 411 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iu interface layer 1 (3GPP TS 25.411 version 16.0.0 Release 16)

TS 125 412 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iu interface signalling transport (3GPP TS 25.412 version 16.0.0 Release 16)

TS 125 414 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iu interface data transport and transport signalling (3GPP TS 25.414 version 16.0.0 Release 16)

TS 125 415 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iu interface user plane protocols (3GPP TS 25.415 version 16.0.0 Release 16)

TS 125 419 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP) (3GPP TS 25.419 version 16.0.0 Release 16)

TS 125 420 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iur interface general aspects and principles (3GPP TS 25.420 version 16.0.0 Release 16)

TS 125 421 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iur interface layer 1 (3GPP TS 25.421 version 16.0.0 Release 16)

TS 125 422 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iur interface signalling transport (3GPP TS 25.422 version 16.0.0 Release 16)

TS 125 423 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling (3GPP TS 25.423 version 16.0.0 Release 16)

TS 125 424 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams (3GPP TS 25.424 version 16.0.0 Release 16)

TS 125 425 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iur interface user plane protocols for Common Transport Channel data streams (3GPP TS 25.425 version 16.0.0 Release 16)

TS 125 426 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams (3GPP TS 25.426 version 16.0.0 Release 16)

TS 125 427 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iub/Iur interface user plane protocol for DCH data streams (3GPP TS 25.427 version 16.0.0 Release 16)

TS 125 430 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iub Interface: general aspects and principles (3GPP TS 25.430 version 16.0.0 Release 16)

TS 125 431 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iub interface Layer 1 (3GPP TS 25.431 version 16.0.0 Release 16)

TS 125 432 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iub interface: signalling transport (3GPP TS 25.432 version 16.0.0 Release 16)

TS 125 434 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN Iub interface data transport and transport signalling for Common Transport Channel data streams (3GPP TS 25.434 version 16.0.0 Release 16)

16.0.0 Release 16)

TS 125 435 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iub interface user plane protocols for Common Transport Channel data streams (3GPP TS 25.435 version 16.0.0 Release 16)

TS 125 442 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN implementation-specific O&M transport (3GPP TS 25.442 version 16.0.0 Release 16)

TS 125 444 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Iuh data transport (3GPP TS 25.444 version 16.0.0 Release 16)

TS 125 446 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); MBMS synchronisation protocol (SYNC) (3GPP TS 25.446 version 16.0.0 Release 16)

TS 125 450 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iupc interface general aspects and principles (3GPP TS 25.450 version 16.0.0 Release 16)

TS 125 451 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iupc interface layer 1 (3GPP TS 25.451 version 16.0.0 Release 16)

TS 125 452 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iupc interface: signalling transport (3GPP TS 25.452 version 16.0.0 Release 16)

TS 125 453 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling (3GPP TS 25.453 version 16.0.0 Release 16)

TS 125 460 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iuant interface: General aspects and principles (3GPP TS 25.460 version 16.0.0 Release 16)

TS 125 461 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iuant interface: Layer 1 (3GPP TS 25.461 version 16.0.0 Release 16)

TS 125 462 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iuant interface: Signalling transport (3GPP TS 25.462 version 16.0.0 Release 16)

TS 125 466 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iuant interface: Application part (3GPP TS 25.466 version 16.0.0 Release 16)

TS 125 467 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN architecture for 3G Home Node B (HNB); Stage 2 (3GPP TS 25.467 version 16.0.0 Release 16)

TS 125 468 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iuh Interface RANAP User Adaption (RUA) signalling (3GPP TS 25.468 version 16.0.0 Release 16)

TS 125 469 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iuh interface Home Node B (HNB) Application Part (HNBAP) signalling (3GPP TS 25.469 version 16.0.0 Release 16)

TS 125 470 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iuh Interface PCAP User Adaption (PUA) signalling (3GPP TS 25.470 version 16.0.0 Release 16)

TS 125 471 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); UTRAN Iurh interface Radio Network Subsystem Application Part (RNSAP) User Adaption (RNA) signalling (3GPP TS 25.471 version 16.0.0 Release 16)

TS 125 484 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Automatic Neighbour Relation (ANR) for UTRAN; Stage 2 (3GPP TS 25.484 version 16.0.0 Release 16)

TR 125 906 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); Dynamically reconfiguring a Frequency Division Duplex (FDD) User Equipment (UE) receiver to reduce power consumption when desired Quality of Service (QoS) is met (3GPP TR 25.906 version 16.0.0 Release 16)

TR 125 914 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); Measurements of radio performances for UMTS terminals in speech mode (3GPP TR 25.914 version 16.0.0 Release 16)

TR 125 931 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); UTRAN functions, examples on signalling procedures (3GPP TR 25.931 version 16.0.0 Release 16)

TR 125 942 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); Radio Frequency (RF) system scenarios (3GPP TR 25.942 version 16.0.0 Release 16)

TR 125 943 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); Deployment aspects (3GPP TR 25.943 version 16.0.0 Release 16)

TR 125 951 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); FDD Base Station (BS) classification (3GPP TR 25.951 version 16.0.0 Release 16)

TR 125 956 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); Universal Terrestrial Radio Access (UTRA) repeater planning guidelines and system analysis (3GPP TR 25.956 version 16.0.0 Release 16)

TR 125 963 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); Feasibility study on interference cancellation for UTRA FDD User Equipment (UE) (3GPP TR 25.963 version 16.0.0 Release 16)

TR 125 967 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); Home Node B (HNB) Radio Frequency (RF) requirements (FDD) (3GPP TR 25.967 version 16.0.0 Release 16)

TR 125 968 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 Universal Mobile Telecommunications System (UMTS); 1.28 Mcps TDD Home NodeB Radio Frequency (RF) (3GPP TR 25.968 version 16.0.0 Release 16)

TS 126 071 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mandatory speech CODEC speech processing functions; AMR speech Codec; General description (3GPP TS 26.071 version 16.0.0 Release 16)

TS 126 073 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; ANSI-C code for the Adaptive Multi Rate (AMR) speech codec (3GPP TS 26.073 version 16.0.0 Release 16)

TS 126 074 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec test sequences (3GPP TS 26.074 version 16.0.0 Release 16)

TS 126 077 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Minimum performance requirements for Noise Suppressor; Application to the Adaptive Multi-Rate (AMR) speech encoder (3GPP TS 26.077 version 16.0.0 Release 16)

TS 126 090 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mandatory Speech Codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Transcoding functions (3GPP TS 26.090 version 16.0.0 Release 16)

TS 126 091 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mandatory Speech Codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Error concealment of lost frames (3GPP TS 26.091 version 16.0.0 Release 16)

TS 126 092 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Comfort noise aspects (3GPP TS 26.092 version 16.0.0 Release 16)

TS 126 094 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD) (3GPP TS 26.094 version 16.0.0 Release 16)

TS 126 101 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure (3GPP TS 26.101 version 16.0.0 Release 16)

TS 126 102 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to lu, Uu and Nb (3GPP TS 26.102 version 16.0.0 Release 16)

TS 126 110 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Codec for circuit switched multimedia telephony service; General description (3GPP TS 26.110 version 16.0.0 Release 16)

TS 126 111 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Codec for circuit switched multimedia telephony service; Modifications to H.324 (3GPP TS 26.111 version 16.0.0 Release 16)

TS 126 140 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Multimedia Messaging Service (MMS); Media formats and codecs (3GPP TS 26.140 version 16.0.0 Release 16)

TS 126 141 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications

System (UMTS); LTE; IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs (3GPP TS 26.141 version 16.0.0 Release 16)

TS 126 142 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Dynamic and Interactive Multimedia Scenes (DIMS) (3GPP TS 26.142 version 16.0.0 Release 16)

TS 126 150 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Syndicated Feed Reception (SFR) within 3GPP environments; Protocols and codecs (3GPP TS 26.150 version 16.0.0 Release 16)

TS 126 171 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description (3GPP TS 26.171 version 16.0.0 Release 16)

TS 126 173 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec (3GPP TS 26.173 version 16.0.0 Release 16)

TS 126 174 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences (3GPP TS 26.174 version 16.0.0 Release 16)

TS 126 177 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Digital cellular telecommunications system (Phase 2+) (GSM); Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences (3GPP TS 26.177 version 16.0.0 Release 16)

TS 126 190 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech

processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Transcoding functions (3GPP TS 26.190 version 16.0.0 Release 16)

TS 126 191 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames (3GPP TS 26.191 version 16.0.0 Release 16)

TS 126 192 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects (3GPP TS 26.192 version 16.0.0 Release 16)

TS 126 193 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation (3GPP TS 26.193 version 16.0.0 Release 16)

TS 126 194 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD) (3GPP TS 26.194 version 16.0.0 Release 16)

TS 126 201 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure (3GPP TS 26.201 version 16.0.0 Release 16)

TS 126 202 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to Iu, Uu and Nb (3GPP TS 26.202 version 16.0.0

Release 16)

TS 126 226 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Cellular text telephone modem; General description (3GPP TS 26.226 version 16.0.0 Release 16)

TS 126 230 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Cellular text telephone modem; Transmitter bit exact C-code (3GPP TS 26.230 version 16.0.0 Release 16)

TS 126 231 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Cellular text telephone modem; Minimum performance requirements (3GPP TS 26.231 version 16.0.0 Release 16)

TS 126 237 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS) based Packet Switch Streaming (PSS) and Multimedia Broadcast/Multicast Service (MBMS) User Service; Protocols (3GPP TS 26.237 version 16.0.0 Release 16)

TS 126 243 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; ANSI-C code for the fixed-point distributed speech recognition extended advanced front-end (3GPP TS 26.243 version 16.0.0 Release 16)

TS 126 244 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP) (3GPP TS 26.244 version 16.0.0 Release 16)

TS 126 245 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Transparent end-to-end Packet switched Streaming Service (PSS); Timed text format (3GPP TS 26.245 version 16.0.0 Release 16)

TS 126 246 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA

Universal Mobile Telecommunications System (UMTS); LTE; Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile (3GPP TS 26.246 version 16.0.0 Release 16)

TS 126 259 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Subjective test methodologies for the evaluation of immersive audio systems (3GPP TS 26.259 version 16.0.0 Release 16)

TS 126 260 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Objective test methodologies for the evaluation of immersive audio systems (3GPP TS 26.260 version 16.0.0 Release 16)

TS 126 267 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); eCall data transfer; In-band modem solution; General description (3GPP TS 26.267 version 16.0.0 Release 16)

TS 126 268 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); eCall data transfer; In-band modem solution; ANSI-C reference code (3GPP TS 26.268 version 16.0.0 Release 16)

TS 126 269 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); eCall data transfer; In-band modem solution; Conformance testing (3GPP TS 26.269 version 16.0.0 Release 16)

TS 126 273 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec (3GPP TS 26.273 version 16.0.0 Release 16)

TS 126 274 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing (3GPP TS 26.274 version 16.0.0 Release 16)

TS 126 281 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA

LTE; Mission Critical Video (MCVideo); Codecs and media handling (3GPP TS 26.281 version 16.0.0 Release 16)

TS 126 290 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions (3GPP TS 26.290 version 16.0.0 Release 16)

TS 126 304 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Floating-point ANSI-C code (3GPP TS 26.304 version 16.0.0 Release 16)

TS 126 307 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Presentation layer for 3GPP services (3GPP TS 26.307 version 16.0.0 Release 16)

TS 126 401 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description (3GPP TS 26.401 version 16.0.0 Release 16)

TS 126 402 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools (3GPP TS 26.402 version 16.0.0 Release 16)

TS 126 403 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part (3GPP TS 26.403 version 16.0.0 Release 16)

TS 126 404 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General audio codec audio

processing functions; Enhanced aacPlus general audio codec; Enhanced aacPlus encoder Spectral Band Replication (SBR) part (3GPP TS 26.404 version 16.0.0 Release 16)

TS 126 405 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification parametric stereo part (3GPP TS 26.405 version 16.0.0 Release 16)

TS 126 406 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing (3GPP TS 26.406 version 16.0.0 Release 16)

TS 126 410 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code (3GPP TS 26.410 version 16.0.0 Release 16)

TS 126 411 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code (3GPP TS 26.411 version 16.0.0 Release 16)

TS 126 412 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Source code for 3GP file format (3GPP TS 26.412 version 16.0.0 Release 16)

TS 126 441 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Codec for Enhanced Voice Services (EVS); General overview (3GPP TS 26.441 version 16.0.0 Release 16)

TS 126 442 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Codec for Enhanced Voice Services (EVS); ANSI C code (fixed-point) (3GPP TS 26.442 version 16.0.0 Release 16)

TS 126 451 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Codec for Enhanced Voice Services (EVS); Voice Activity Detection (VAD) (3GPP TS 26.451 version 16.0.0 Release 16)

TS 127 001 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) (3GPP TS 27.001 version 16.0.0 Release 16)

TS 127 002 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Terminal Adaptation Functions (TAF) for services using asynchronous bearer capabilities (3GPP TS 27.002 version 16.0.0 Release 16)

TS 127 003 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Terminal Adaptation Functions (TAF) for services using synchronous bearer capabilities (3GPP TS 27.003 version 16.0.0 Release 16)

TS 127 005 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) (3GPP TS 27.005 version 16.0.0 Release 16)

TS 127 007 V15.8.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; AT command set for User Equipment (UE) (3GPP TS 27.007 version 15.8.0 Release 15)

TS 127 007 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; AT command set for User Equipment (UE) (3GPP TS 27.007 version 16.5.0 Release 16)

TS 127 010 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications

System (UMTS); LTE; Terminal Equipment to User Equipment (TE-UE) multiplexer protocol (3GPP TS 27.010 version 16.0.0 Release 16)

TS 127 060 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Packet domain; Mobile Station (MS) supporting Packet Switched services (3GPP TS 27.060 version 16.0.0 Release 16)

TS 128 301 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Licensed Shared Access (LSA) Controller (LC) Integration Reference Point (IRP); Requirements (3GPP TS 28.301 version 16.0.0 Release 16)

TS 128 303 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Licensed Shared Access (LSA) Controller (LC) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.303 version 16.0.0 Release 16)

TS 128 306 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Control and monitoring of Power, Energy and Environmental (PEE) parameters Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.306 version 16.0.0 Release 16)

TS 128 310 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; LTE; Management and orchestration; Energy efficiency of 5G (3GPP TS 28.310 version 16.1.0 Release 16)

TS 128 402 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements for Evolved Packet Core (EPC) and non-3GPP access interworking system (3GPP TS 28.402 version 16.0.0 Release 16)

TS 128 403 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements for Wireless Local Area Network (WLAN) (3GPP TS 28.403 version 16.0.0 Release 16)

TS 128 500 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Management concept, architecture and requirements for mobile networks that include virtualized network functions (3GPP TS 28.500 version 16.0.0 Release 16)

TS 128 510 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Configuration Management (CM) for mobile networks that include virtualized network functions; Requirements (3GPP TS 28.510 version 16.0.0 Release 16)

TS 128 511 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Configuration Management (CM) for mobile networks that include virtualized network functions; Procedures (3GPP TS 28.511 version 16.0.0 Release 16)

TS 128 512 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Configuration Management (CM) for mobile networks that include virtualized network functions; Stage 2 (3GPP TS 28.512 version 16.0.0 Release 16)

TS 128 513 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Configuration Management (CM) for mobile networks that include virtualized network functions; Stage 3 (3GPP TS 28.513 version 16.0.0 Release 16)

TS 128 515 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Fault Management (FM) for mobile networks that include virtualized network functions; Requirements (3GPP TS 28.515 version 16.0.0 Release 16)

TS 128 516 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Fault Management (FM) for mobile networks that include virtualized network functions; Procedures (3GPP TS 28.516 version 16.0.0 Release 16)

TS 128 517 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Fault Management (FM) for mobile networks that include virtualized network functions; Stage 2 (3GPP TS 28.517 version 16.0.0 Release 16)

TS 128 518 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Fault Management (FM) for mobile networks that include virtualized network functions; Stage 3 (3GPP TS 28.518 version 16.0.0 Release 16)

TS 128 520 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Performance Management (PM) for mobile networks that include virtualized network functions; Requirements (3GPP TS 28.520 version 16.0.0 Release 16)

TS 128 521 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Performance Management (PM) for mobile networks that include virtualized network functions; Procedures (3GPP TS 28.521 version 16.0.0 Release 16)

TS 128 522 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Performance Management (PM) for mobile networks that include virtualized network functions; Stage 2 (3GPP TS 28.522 version 16.0.0 Release 16)

TS 128 523 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Performance Management (PM) for mobile networks that include virtualized network functions; Stage 3 (3GPP TS 28.523 version 16.0.0 Release 16)

TS 128 525 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Life Cycle Management (LCM) for mobile networks that include virtualized network functions; Requirements (3GPP TS 28.525 version 16.0.0 Release 16)

TS 128 526 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Life Cycle Management (LCM) for mobile networks that include virtualized network functions; Procedures (3GPP TS 28.526 version 16.0.0 Release 16)

TS 128 527 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Life Cycle Management (LCM) for mobile networks that include virtualized network functions; Stage 2 (3GPP TS 28.527 version 16.0.0 Release 16)

TS 128 528 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Life Cycle

Management (LCM) for mobile networks that include virtualized network functions; Stage 3 (3GPP TS 28.528 version 16.0.0 Release 16)

TS 128 530 V16.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Concepts, use cases and requirements (3GPP TS 28.530 version 16.2.0 Release 16)

TS 128 531 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Provisioning (3GPP TS 28.531 version 15.6.0 Release 15)

TS 128 531 V16.6.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Provisioning (3GPP TS 28.531 version 16.6.0 Release 16)

TS 128 532 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Generic management services (3GPP TS 28.532 version 15.6.0 Release 15)

TS 128 532 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Generic management services (3GPP TS 28.532 version 16.4.0 Release 16)

TS 128 533 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Architecture framework (3GPP TS 28.533 version 16.4.0 Release 16)

TS 128 541 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3 (3GPP TS 28.541 version 15.6.0 Release 15)

TS 128 541 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3 (3GPP TS 28.541 version 16.5.0 Release 16)

TS 128 545 V15.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Fault Supervision (FS) (3GPP TS 28.545 version 15.2.0 Release 15)

TS 128 545 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Fault Supervision (FS) (3GPP TS 28.545 version 16.0.0 Release 16)

TS 128 550 V15.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Performance assurance (3GPP TS 28.550 version 15.5.0 Release 15)

TS 128 550 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; Performance assurance (3GPP TS 28.550 version 16.5.0 Release 16)

TS 128 552 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; 5G performance measurements (3GPP TS 28.552 version 15.6.0 Release 15)

TS 128 552 V16.6.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; 5G performance measurements (3GPP TS 28.552 version 16.6.0 Release 16)

TS 128 554 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Management and orchestration; 5G end to end Key Performance Indicators (KPI) (3GPP TS 28.554 version 16.5.0 Release 16)

TS 128 611 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Evolved Packet Core (EPC) and non-3GPP access interworking system Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.611 version 16.0.0 Release 16)

TS 128 612 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Evolved Packet Core (EPC) and non-3GPP access interworking system Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.612 version 16.0.0 Release 16)

TS 128 616 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Evolved Packet Core (EPC) and non-3GPP access interworking system Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.616 version 16.0.0 Release 16)

TS 128 620 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Fixed Mobile Convergence (FMC) Federated Network Information Model (FNIM) Umbrella Information Model (UIM) (3GPP TS 28.620 version 16.0.0 Release 16)

TS 128 621 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.621 version 16.0.0 Release 16)

TS 128 622 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.622 version 16.4.0 Release 16)

TS 128 623 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.623 version 16.4.0 Release 16)

TS 128 624 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; State management data definition Integration Reference Point (IRP); Requirements (3GPP TS 28.624 version 16.0.0 Release 16)

TS 128 625 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; State management data definition Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.625 version 16.0.0 Release 16)

TS 128 626 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; State management data definition Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.626 version 16.0.0 Release 16)

TS 128 628 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System

(UMTS); LTE; Telecommunication management; Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.628 version 16.0.0 Release 16)

TS 128 629 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.629 version 16.0.0 Release 16)

TS 128 631 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Inventory Management (IM) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.631 version 16.0.0 Release 16)

TS 128 632 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Inventory Management (IM) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.632 version 16.0.0 Release 16)

TS 128 633 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Inventory Management (IM) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.633 version 16.0.0 Release 16)

TS 128 651 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Universal Terrestrial Radio Access Network (UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.651 version 16.0.0 Release 16)

TS 128 652 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Universal Terrestrial Radio Access Network (UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.652 version 16.0.0 Release 16)

TS 128 653 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA

Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Universal Terrestrial Radio Access Network (UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.653 version 16.0.0 Release 16)

TS 128 654 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; GSM/EDGE Radio Access Network (GERAN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.654 version 16.0.0 Release 16)

TS 128 655 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; GSM/EDGE Radio Access Network (GERAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.655 version 16.0.0 Release 16)

TS 128 657 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.657 version 16.0.0 Release 16)

TS 128 658 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.658 version 16.3.0 Release 16)

TS 128 661 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.661 version 16.0.0 Release 16)

TS 128 662 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.662 version 16.0.0 Release 16)

TS 128 663 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Generic Radio Access Network (RAN) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.663 version 16.0.0 Release 16)

TS 128 667 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Radio Planning Tool Access (RPTA) Integration Reference Point (IRP); Requirements (3GPP TS 28.667 version 16.0.0 Release 16)

TS 128 668 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Radio Planning Tool Access (RPTA) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.668 version 16.0.0 Release 16)

TS 128 669 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Radio Planning Tool Access (RPTA) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.669 version 16.0.0 Release 16)

TS 128 671 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home Node B (HNB) Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.671 version 16.0.0 Release 16)

TS 128 672 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home Node B (HNB) Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.672 version 16.0.0 Release 16)

TS 128 673 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home Node B (HNB) Subsystem (HNS) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.673 version 16.0.0 Release 16)

TS 128 674 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA

Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home enhanced Node B (HeNB) Subsystem (HeNS) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.674 version 16.0.0 Release 16)

TS 128 675 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home enhanced Node B (HeNB) Subsystem (HeNS) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.675 version 16.0.0 Release 16)

TS 128 676 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home enhanced Node B (HeNB) Subsystem (HeNS) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.676 version 16.0.0 Release 16)

TS 128 680 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Wireless Local Area Network (WLAN) management; Concepts and requirements (3GPP TS 28.680 version 16.0.0 Release 16)

TS 128 681 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Wireless Local Area Network (WLAN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.681 version 16.0.0 Release 16)

TS 128 682 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Wireless Local Area Network (WLAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.682 version 16.0.0 Release 16)

TS 128 683 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Wireless Local Area Network (WLAN) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.683 version 16.0.0 Release 16)

TS 128 701 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System

(UMTS); LTE; Telecommunication management; Core Network (CN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.701 version 16.0.0 Release 16)

TS 128 702 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Core Network (CN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.702 version 16.0.0 Release 16)

TS 128 703 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Core Network (CN) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.703 version 16.0.0 Release 16)

TS 128 704 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.704 version 16.0.0 Release 16)

TS 128 705 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.705 version 16.0.0 Release 16)

TS 128 706 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.706 version 16.0.0 Release 16)

TS 128 707 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.707 version 16.0.0 Release 16)

TS 128 708 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System

(UMTS); LTE; Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.708 version 16.0.0 Release 16)

TS 128 709 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.709 version 16.0.0 Release 16)

TS 128 731 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Transport Network (TN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.731 version 16.0.0 Release 16)

TS 128 732 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Transport Network (TN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.732 version 16.0.0 Release 16)

TS 128 733 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Transport Network (TN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.733 version 16.0.0 Release 16)

TS 128 734 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Signalling Transport Network (STN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.734 version 16.0.0 Release 16)

TS 128 735 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Signalling Transport Network (STN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.735 version 16.0.0 Release 16)

TS 128 736 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System

(UMTS); LTE; Telecommunication management; Signalling Transport Network (STN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.736 version 16.0.0 Release 16)

TS 128 751 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements (3GPP TS 28.751 version 16.0.0 Release 16)

TS 128 752 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 28.752 version 16.0.0 Release 16)

TS 128 753 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 28.753 version 16.0.0 Release 16)

TS 129 007 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (3GPP TS 29.007 version 16.0.0 Release 16)

TS 129 016 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface network service specification (3GPP TS 29.016 version 16.0.0 Release 16)

TS 129 018 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification (3GPP TS 29.018 version

16.0.0 Release 16)

TS 129 061 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061 version 15.6.0 Release 15)

TS 129 061 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061 version 16.0.0 Release 16)

TS 129 079 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Optimal media routing within the IP Multimedia Subsystem (IMS); Stage 3 (3GPP TS 29.079 version 16.0.0 Release 16)

TS 129 108 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); LTE; Application of the Radio Access Network Application Part (RANAP) on the E-interface (3GPP TS 29.108 version 16.0.0 Release 16)

TS 129 116 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; 5G; Representational state transfer over xMB reference point between content provider and BM-SC (3GPP TS 29.116 version 16.5.0 Release 16)

TS 129 118 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Mobility Management Entity (MME) - Visitor Location Register (VLR) SGs interface specification (3GPP TS 29.118 version 16.0.0 Release 16)

TS 129 122 V15.7.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; 5G; T8 reference point for Northbound APIs (3GPP TS 29.122 version 15.7.0 Release 15)

TS 129 122 V16.6.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System

(UMTS); LTE; 5G; T8 reference point for Northbound APIs (3GPP TS 29.122 version 16.6.0 Release 16)

TS 129 153 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Service capability exposure functionality over Ns reference point (3GPP TS 29.153 version 16.0.0 Release 16)

TS 129 154 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Service capability exposure functionality over Nt reference point (3GPP TS 29.154 version 16.0.0 Release 16)

TS 129 155 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; Traffic steering control; Representational State Transfer (REST) over St reference point (3GPP TS 29.155 version 16.0.0 Release 16)

TS 129 164 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Interworking between the 3GPP CS domain with BICC or ISUP as signalling protocol and external SIP-I networks (3GPP TS 29.164 version 16.0.0 Release 16)

TS 129 165 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 16.3.0 Release 16)

TS 129 201 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Representational State Transfer (REST) reference point between Application Function (AF) and Protocol Converter (PC) (3GPP TS 29.201 version 16.0.0 Release 16)

TS 129 213 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 16.3.0 Release 16)

TS 129 214 V15.8.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Policy and charging control over Rx reference point (3GPP TS 29.214 version

15.8.0 Release 15)

TS 129 214 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Policy and charging control over Rx reference point (3GPP TS 29.214 version 16.3.0 Release 16)

TS 129 215 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Policy and Charging Control (PCC) over S9 reference point; Stage 3 (3GPP TS 29.215 version 16.0.0 Release 16)

TS 129 217 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Policy and Charging Control (PCC); Congestion reporting over Np reference point (3GPP TS 29.217 version 16.0.0 Release 16)

TS 129 219 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Policy and charging control: Spending limit reporting over Sy reference point (3GPP TS 29.219 version 16.0.0 Release 16)

TS 129 222 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; LTE; Common API Framework for 3GPP Northbound APIs (3GPP TS 29.222 version 15.6.0 Release 15)

TS 129 222 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; LTE; Common API Framework for 3GPP Northbound APIs (3GPP TS 29.222 version 16.3.0 Release 16)

TS 129 235 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between SIP-I based circuit-switched core network and other networks (3GPP TS 29.235 version 16.0.0 Release 16)

TS 129 240 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; 3GPP Generic User Profile (GUP); Stage 3; Network (3GPP TS 29.240 version 16.0.0 Release 16)

TS 129 292 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT

Universal Mobile Telecommunications System (UMTS); LTE; 5G; Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS) (3GPP TS 29.292 version 16.0.0 Release 16)

TS 129 311 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Service Level Interworking (SLI) for messaging services (3GPP TS 29.311 version 16.0.0 Release 16)

TS 129 343 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Proximity-services (ProSe) function to ProSe application server aspects (PC2); Stage 3 (3GPP TS 29.343 version 16.0.0 Release 16)

TS 129 368 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS) (3GPP TS 29.368 version 16.0.0 Release 16)

TS 129 413 V15.4.0:2020

Comitet Tehnic ETSI: 3GPP RAN
5G; Application of the NG Application Protocol (NGAP) to non-3GPP access (3GPP TS 29.413 version 15.4.0 Release 15)

TS 129 413 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
5G; Application of the NG Application Protocol (NGAP) to non-3GPP access (3GPP TS 29.413 version 16.0.0 Release 16)

TS 129 414 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); Core network Nb data transport and transport signalling (3GPP TS 29.414 version 16.0.0 Release 16)

TS 129 415 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); Core network Nb interface user plane protocols (3GPP TS 29.415 version 16.0.0 Release 16)

TS 129 468 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Group Communication System Enablers for LTE (GCSE_LTE); MB2 reference point; Stage 3 (3GPP TS 29.468 version 16.0.0 Release 16)

TS 129 486 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; 5G; Vehicle-to-Everything (V2X) Application Enabler (VAE) service; Stage 3 (3GPP TS 29.486 version 16.1.0 Release 16)

TS 129 507 V15.7.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Access and Mobility Policy Control Service; Stage 3 (3GPP TS 29.507 version 15.7.0 Release 15)

TS 129 507 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Access and Mobility Policy Control Service; Stage 3 (3GPP TS 29.507 version 16.4.0 Release 16)

TS 129 508 V15.7.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Session Management Event Exposure Service; Stage 3 (3GPP TS 29.508 version 15.7.0 Release 15)

TS 129 508 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Session Management Event Exposure Service; Stage 3 (3GPP TS 29.508 version 16.4.0 Release 16)

TS 129 512 V15.7.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Session Management Policy Control Service; Stage 3 (3GPP TS 29.512 version 15.7.0 Release 15)

TS 129 512 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Session Management Policy Control Service; Stage 3 (3GPP TS 29.512 version 16.5.0 Release 16)

TS 129 513 V15.7.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Policy and Charging Control signalling flows and QoS parameter mapping; Stage 3 (3GPP TS 29.513 version 15.7.0 Release 15)

TS 129 513 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Policy and Charging Control signalling flows and QoS parameter mapping; Stage 3 (3GPP TS 29.513 version 16.4.0 Release 16)

TS 129 514 V15.7.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Policy Authorization Service; Stage 3 (3GPP TS 29.514 version 15.7.0 Release 15)

TS 129 514 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Policy Authorization Service;
Stage 3 (3GPP TS 29.514 version 16.5.0 Release
16)

TS 129 517 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Application Function (AF) event
exposure service; Stage 3 (3GPP TS 29.517
version 16.1.0 Release 16)

TS 129 519 V15.7.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Usage of the Unified Data
Repository Service for Policy Data, Application
Data and Structured Data for Exposure; Stage 3
(3GPP TS 29.519 version 15.7.0 Release 15)

TS 129 519 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Usage of the Unified Data
Repository Service for Policy Data, Application
Data and Structured Data for Exposure; Stage 3
(3GPP TS 29.519 version 16.4.0 Release 16)

TS 129 520 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Network Data Analytics Services;
Stage 3 (3GPP TS 29.520 version 15.6.0 Release
15)

TS 129 520 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Network Data Analytics Services;
Stage 3 (3GPP TS 29.520 version 16.4.0 Release
16)

TS 129 521 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Binding Support Management
Service; Stage 3 (3GPP TS 29.521 version 15.6.0
Release 15)

TS 129 521 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Binding Support Management
Service; Stage 3 (3GPP TS 29.521 version 16.4.0
Release 16)

TS 129 522 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Network Exposure Function
Northbound APIs; Stage 3 (3GPP TS 29.522
version 16.4.0 Release 16)

TS 129 523 V15.3.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Policy Control Event Exposure
Service; Stage 3 (3GPP TS 29.523 version 15.3.0
Release 15)

TS 129 523 V16.2.0:2020

Comitet Tehnic ETSI: 3GPP CT

5G; 5G System; Policy Control Event Exposure
Service; Stage 3 (3GPP TS 29.523 version 16.2.0
Release 16)

TS 129 525 V15.5.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; UE Policy Control Service; Stage
3 (3GPP TS 29.525 version 15.5.0 Release 15)

TS 129 525 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; UE Policy Control Service; Stage
3 (3GPP TS 29.525 version 16.4.0 Release 16)

TS 129 549 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; LTE; Service Enabler Architecture Layer
(SEAL); Application Programming Interface (API)
specification; Stage 3 (3GPP TS 29.549 version
16.0.0 Release 16)

TS 129 551 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Packet Flow Description
Management Service; Stage 3 (3GPP TS 29.551
version 16.4.0 Release 16)

TS 129 554 V15.5.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Background Data Transfer Policy
Control Service; Stage 3 (3GPP TS 29.554
version 15.5.0 Release 15)

TS 129 554 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Background Data Transfer Policy
Control Service; Stage 3 (3GPP TS 29.554
version 16.4.0 Release 16)

TS 129 561 V15.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Interworking between 5G
Network and external Data Networks; Stage 3
(3GPP TS 29.561 version 15.4.0 Release 15)

TS 129 561 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Interworking between 5G
Network and external Data Networks; Stage 3
(3GPP TS 29.561 version 16.4.0 Release 16)

TS 129 582 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; 5G; Mission Critical Data (MCDData)
interworking with Land Mobile Radio (LMR)
systems; Stage 3 (3GPP TS 29.582 version
16.1.0 Release 16)

TS 129 591 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System (5GS); Network exposure function
southbound services; Stage 3 (3GPP TS 29.591
version 16.1.0 Release 16)

TS 129 594 V15.6.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Spending Limit Control Service;
Stage 3 (3GPP TS 29.594 version 15.6.0 Release 15)

TS 129 594 V16.2.0:2020

Comitet Tehnic ETSI: 3GPP CT
5G; 5G System; Spending Limit Control Service;
Stage 3 (3GPP TS 29.594 version 16.2.0 Release 16)

TS 129 658 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; SIP Transfer of IP Multimedia Service Tariff Information; Protocol specification (3GPP TS 29.658 version 16.0.0 Release 16)

TS 129 675 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP CT
LTE; 5G; User Equipment (UE) radio capability provisioning service; Stage 3 (3GPP TS 29.675 version 16.1.0 Release 16)

TR 129 909 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Diameter-based protocols usage and recommendations in 3GPP (3GPP TR 29.909 version 16.0.0 Release 16)

TR 129 935 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Study on User Data Convergence (UDC) data model (3GPP TR 29.935 version 16.0.0 Release 16)

TR 129 949 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; Study on technical aspects on roaming end-to-end scenarios with Voice over LTE (VoLTE) IP Multimedia Subsystem (IMS) and other networks (3GPP TR 29.949 version 16.0.0 Release 16)

TS 131 116 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Remote APDU Structure for (U)SIM Toolkit applications (3GPP TS 31.116 version 16.0.0 Release 16)

TS 131 130 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications

System (UMTS); LTE; 5G; (U)SIM Application Programming Interface (API); (U)SIM API for Java™ Card (3GPP TS 31.130 version 16.0.0 Release 16)

TS 131 131 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Universal Mobile Telecommunications System (UMTS); LTE; C-language binding to (U)SIM API (3GPP TS 31.131 version 16.0.0 Release 16)

TS 132 101 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Principles and high level requirements (3GPP TS 32.101 version 16.0.0 Release 16)

TS 132 102 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Architecture (3GPP TS 32.102 version 16.0.0 Release 16)

TS 132 103 V15.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Integration Reference Point (IRP) overview and usage guide (3GPP TS 32.103 version 15.1.0 Release 15)

TS 132 103 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Integration Reference Point (IRP) overview and usage guide (3GPP TS 32.103 version 16.0.0 Release 16)

TS 132 107 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Fixed Mobile Convergence (FMC) Federated Network Information Model (FNIM) (3GPP TS 32.107 version 16.0.0 Release 16)

TS 132 111-1 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Fault Management; Part 1: 3G fault management requirements (3GPP TS 32.111-1 version 16.0.0 Release 16)

TS 132 111-2 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point (IRP): Information Service (IS) (3GPP TS 32.111-2 version 16.0.0 Release 16)

TS 132 111-6 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Fault Management; Part 6: Alarm Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.111-6 version 16.0.0 Release 16)

TS 132 121 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Advanced Alarm Management (AAM) Integration Reference Point (IRP): Requirements (3GPP TS 32.121 version 16.0.0 Release 16)

TS 132 122 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Advanced Alarm Management (AAM) Integration Reference Point (IRP): Information Service (IS) (3GPP TS 32.122 version 16.0.0 Release 16)

TS 132 126 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Advanced Alarm Management (AAM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.126 version 16.0.0 Release 16)

TS 132 130 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Network sharing; Concepts and requirements (3GPP TS 32.130 version 16.0.0 Release 16)

TS 132 140 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscription Management (SuM)

requirements (3GPP TS 32.140 version 16.0.0 Release 16)

TS 132 141 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscription Management (SuM) architecture (3GPP TS 32.141 version 16.0.0 Release 16)

TS 132 150 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Integration Reference Point (IRP) Concept and definitions (3GPP TS 32.150 version 16.0.0 Release 16)

TS 132 153 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Integration Reference Point (IRP) technology specific templates, rules and guidelines (3GPP TS 32.153 version 16.0.0 Release 16)

TS 132 154 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Backward and Forward Compatibility (BFC); Concept and definitions (3GPP TS 32.154 version 16.0.0 Release 16)

TS 132 155 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Requirements template (3GPP TS 32.155 version 16.0.0 Release 16)

TS 132 157 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Integration Reference Point (IRP) Information Service (IS) template (3GPP TS 32.157 version 16.0.0 Release 16)

TS 132 158 V15.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
 LTE; 5G; Management and orchestration; Design rules for REpresentational State Transfer (REST) Solution Sets (SS) (3GPP TS 32.158 version 15.5.0 Release 15)

TS 132 158 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; 5G; Management and orchestration; Design rules for REpresentational State Transfer (REST) Solution Sets (SS) (3GPP TS 32.158 version 16.0.0 Release 16)

TS 132 160 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; 5G; Management and orchestration; Management service template (3GPP TS 32.160 version 16.3.0 Release 16)

TS 132 181 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; User Data Convergence (UDC); Framework for Model Handling and Management (3GPP TS 32.181 version 16.0.0 Release 16)

TS 132 182 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; User Data Convergence (UDC); Common baseline information model (CBIM) (3GPP TS 32.182 version 16.0.0 Release 16)

TS 132 250 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Circuit Switched (CS) domain charging (3GPP TS 32.250 version 16.0.0 Release 16)

TS 132 253 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Digital cellular telecommunications system (Phase 2+) (GSM); Telecommunication management; Charging management; Control Plane (CP) data transfer domain charging (3GPP TS 32.253 version 16.0.0 Release 16)

TS 132 254 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; 5G; Telecommunication management; Charging management; Exposure function Northbound Application Program Interfaces (APIs) charging (3GPP TS 32.254 version 16.3.0 Release 16)

TS 132 255 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Telecommunication management; Charging management; 5G data connectivity domain charging; Stage 2 (3GPP TS 32.255 version 16.5.0 Release 16)

TS 132 256 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Charging management; 5G connection and mobility domain charging; Stage 2 (3GPP TS 32.256 version 16.1.0 Release 16)

TS 132 270 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Multimedia Messaging Service (MMS) charging (3GPP TS 32.270 version 16.0.0 Release 16)

TS 132 271 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Location Services (LCS) charging (3GPP TS 32.271 version 16.0.0 Release 16)

TS 132 272 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Push-to-talk over Cellular (PoC) charging (3GPP TS 32.272 version 16.0.0 Release 16)

TS 132 273 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Multimedia Broadcast and Multicast Service (MBMS) charging (3GPP TS 32.273 version 16.0.0 Release 16)

TS 132 274 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Short Message Service (SMS) charging (3GPP TS 32.274 version 16.0.0 Release 16)

TS 132 276 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Voice Call Service (VCS) charging (3GPP TS 32.276 version 16.0.0 Release 16)

TS 132 277 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System

(UMTS); LTE; Telecommunication management; Charging management; Proximity-based Services (ProSe) charging (3GPP TS 32.277 version 16.0.0 Release 16)

TS 132 278 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Charging management; Monitoring event charging (3GPP TS 32.278 version 16.0.0 Release 16)

TS 132 280 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Advice of Charge (AoC) service (3GPP TS 32.280 version 16.0.0 Release 16)

TS 132 290 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Telecommunication management; Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI) (3GPP TS 32.290 version 16.4.0 Release 16)

TS 132 291 V15.6.1:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Telecommunication management; Charging management; 5G system, charging service; Stage 3 (3GPP TS 32.291 version 15.6.1 Release 15)

TS 132 291 V16.4.2:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Telecommunication management; Charging management; 5G system, charging service; Stage 3 (3GPP TS 32.291 version 16.4.2 Release 16)

TS 132 293 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Proxy function (3GPP TS 32.293 version 16.0.0 Release 16)

TS 132 295 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Charging Data Record (CDR) transfer (3GPP TS 32.295 version 16.0.0 Release 16)

TS 132 296 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Online

Charging System (OCS): Applications and interfaces (3GPP TS 32.296 version 16.0.0 Release 16)

TS 132 297 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Charging Data Record (CDR) file format and transfer (3GPP TS 32.297 version 16.1.0 Release 16)

TS 132 298 V15.11.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 15.11.0 Release 15)

TS 132 298 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 16.5.0 Release 16)

TS 132 300 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Name convention for Managed Objects (3GPP TS 32.300 version 16.0.0 Release 16)

TS 132 301 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP); Requirements (3GPP TS 32.301 version 16.0.0 Release 16)

TS 132 302 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.302 version 16.0.0 Release 16)

TS 132 306 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System

(UMTS); LTE; Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.306 version 16.0.0 Release 16)

TS 132 311 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements (3GPP TS 32.311 version 16.0.0 Release 16)

TS 132 312 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Generic Integration Reference Point (IRP) management; Information Service (IS) (3GPP TS 32.312 version 16.0.0 Release 16)

TS 132 316 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Generic Integration Reference Point (IRP) management; Solution Set (SS) definitions (3GPP TS 32.316 version 16.0.0 Release 16)

TS 132 321 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Requirements (3GPP TS 32.321 version 16.0.0 Release 16)

TS 132 322 V10.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 10.1.0 Release 10)

TS 132 322 V11.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 11.1.0 Release 11)

TS 132 322 V12.1.0:2020

Comitet Tehnic ETSI: 3GPP SA

Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 12.1.0 Release 12)

TS 132 322 V13.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 13.1.0 Release 13)

TS 132 322 V14.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 14.1.0 Release 14)

TS 132 322 V15.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 15.1.0 Release 15)

TS 132 322 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 16.0.0 Release 16)

TS 132 322 V8.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 8.1.0 Release 8)

TS 132 322 V9.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.322 version 9.1.0 Release 9)

TS 132 326 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA

Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Test management Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.326 version 16.0.0 Release 16)

TS 132 331 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Notification Log (NL) Integration Reference Point (IRP); Requirements (3GPP TS 32.331 version 16.0.0 Release 16)

TS 132 332 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Notification Log (NL) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.332 version 16.0.0 Release 16)

TS 132 336 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Notification Log (NL) Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.336 version 16.0.0 Release 16)

TS 132 341 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; File Transfer (FT) Integration Reference Point (IRP); Requirements (3GPP TS 32.341 version 16.0.0 Release 16)

TS 132 342 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; File Transfer (FT) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.342 version 16.0.0 Release 16)

TS 132 346 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; File Transfer (FT) Integration Reference Point (IRP): Solution Set (SS) definitions (3GPP TS 32.346 version 16.0.0 Release 16)

TS 132 351 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP); Requirements (3GPP TS 32.351 version 16.0.0 Release 16)

TS 132 352 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.352 version 16.0.0 Release 16)

TS 132 356 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.356 version 16.0.0 Release 16)

TS 132 361 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Entry Point (EP) Integration Reference Point (IRP); Requirements (3GPP TS 32.361 version 16.0.0 Release 16)

TS 132 362 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Entry Point (EP) Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.362 version 16.0.0 Release 16)

TS 132 366 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Entry Point (EP) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.366 version 16.0.0 Release 16)

TS 132 371 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Security Management concept and

requirements (3GPP TS 32.371 version 16.0.0 Release 16)

TS 132 372 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Security services for Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.372 version 16.0.0 Release 16)

TS 132 376 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Security services for Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.376 version 16.0.0 Release 16)

TS 132 381 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Partial Suspension of Itf-N Integration Reference Point (IRP); Requirements (3GPP TS 32.381 version 16.0.0 Release 16)

TS 132 382 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Partial Suspension of Itf-N Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.382 version 16.0.0 Release 16)

TS 132 386 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Partial Suspension of Itf-N Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.386 version 16.0.0 Release 16)

TS 132 391 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Delta synchronization Integration Reference Point (IRP); Requirements (3GPP TS 32.391 version 16.0.0 Release 16)

TS 132 392 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Delta synchronization Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.392 version 16.0.0 Release 16)

TS 132 396 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Delta synchronization Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.396 version 16.0.0 Release 16)

TS 132 401 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Concept and requirements (3GPP TS 32.401 version 16.0.0 Release 16)

TS 132 404 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements; Definitions and template (3GPP TS 32.404 version 16.0.0 Release 16)

TS 132 405 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Telecommunication management; Performance Management (PM); Performance measurements; Universal Terrestrial Radio Access Network (UTRAN) (3GPP TS 32.405 version 16.0.0 Release 16)

TS 132 406 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements; Core Network (CN) Packet Switched (PS) domain (3GPP TS 32.406 version 16.0.0 Release 16)

TS 132 407 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements; Core Network (CN) Circuit Switched (CS) domain; UMTS and

combined UMTS/GSM (3GPP TS 32.407 version 16.0.0 Release 16)

TS 132 408 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements; Teleservice (3GPP TS 32.408 version 16.0.0 Release 16)

TS 132 409 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements; IP Multimedia Subsystem (IMS) (3GPP TS 32.409 version 16.0.0 Release 16)

TS 132 410 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Telecommunication management; Key Performance Indicators (KPI) for UMTS and GSM (3GPP TS 32.410 version 16.0.0 Release 16)

TS 132 411 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Requirements (3GPP TS 32.411 version 16.0.0 Release 16)

TS 132 412 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Information Service (IS) (3GPP TS 32.412 version 16.0.0 Release 16)

TS 132 416 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.416 version 16.0.0 Release 16)

TS 132 422 V10.14.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 10.14.0 Release 10)

TS 132 422 V11.13.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 11.13.0 Release 11)

TS 132 422 V12.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 12.5.0 Release 12)

TS 132 422 V13.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 13.1.0 Release 13)

TS 132 422 V14.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 14.1.0 Release 14)

TS 132 422 V15.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 15.4.0 Release 15)

TS 132 422 V16.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 16.2.0 Release 16)

TS 132 422 V8.10.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 8.10.0 Release 8)

TS 132 422 V9.7.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace control and configuration management (3GPP TS 32.422 version 9.7.0 Release 9)

TS 132 423 V10.10.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 10.10.0 Release 10)

TS 132 423 V11.9.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 11.9.0 Release 11)

TS 132 423 V12.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 12.2.0 Release 12)

TS 132 423 V13.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 13.1.0 Release 13)

TS 132 423 V14.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 14.1.0 Release 14)

TS 132 423 V15.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 15.3.0 Release 15)

TS 132 423 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 16.1.0 Release 16)

TS 132 423 V8.6.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 8.6.0 Release 8)

TS 132 423 V9.8.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Subscriber and equipment trace; Trace data definition and management (3GPP TS 32.423 version 9.8.0 Release 9)

TS 132 426 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Performance Management (PM); Performance measurements Evolved Packet Core (EPC) network (3GPP TS 32.426 version 16.0.0 Release 16)

TS 132 432 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance measurement: File format definition (3GPP TS 32.432 version 16.0.0 Release 16)

TS 132 435 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance measurement; eXtensible Markup Language (XML) file format definition (3GPP TS 32.435 version 16.0.0 Release 16)

TS 132 436 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance measurement: Abstract Syntax Notation 1 (ASN.1) file format definition (3GPP TS 32.436 version 16.0.0 Release 16)

TS 132 441 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Trace Management Integration Reference Point (IRP); Requirements (3GPP TS 32.441 version 16.0.0 Release 16)

TS 132 442 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Trace Management Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.442 version 16.0.0 Release 16)

TS 132 446 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Trace Management Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.446 version 16.0.0 Release 16)

TS 132 450 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Key Performance Indicators (KPI) for Evolved Universal Terrestrial Radio Access Network (E-UTRAN): Definitions (3GPP TS 32.450 version 16.0.0 Release 16)

TS 132 452 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements Home Node B (HNB) Subsystem (HNS) (3GPP TS 32.452 version 16.0.0 Release 16)

TS 132 453 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Performance Management (PM); Performance measurements Home enhanced Node B (HeNB) Subsystem (HeNS) (3GPP TS 32.453 version 16.0.0 Release 16)

TS 132 454 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Key Performance Indicators (KPI) for the IP Multimedia Subsystem (IMS); Definitions (3GPP TS 32.454 version 16.0.0 Release 16)

TS 132 455 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Key Performance Indicators (KPI) for the Evolved Packet Core (EPC); Definitions (3GPP TS 32.455 version 16.0.0 Release 16)

TS 132 500 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Self-Organizing Networks (SON); Concepts and requirements (3GPP TS 32.500 version 16.0.0 Release 16)

TS 132 501 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Self-configuration of network elements; Concepts and requirements (3GPP TS 32.501 version 16.0.0 Release 16)

TS 132 502 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Self-configuration of network elements Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.502 version 16.0.0 Release 16)

TS 132 506 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Self-configuration of network elements Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.506 version 16.0.0 Release 16)

TS 132 508 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Procedure flows for multi-vendor plug-and-play eNode B connection to the network (3GPP TS 32.508 version 16.0.0 Release 16)

TS 132 509 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Data formats for multi-vendor plug

and play eNode B connection to the network
(3GPP TS 32.509 version 16.0.0 Release 16)

TS 132 531 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Software management (SwM); Concepts and Integration Reference Point (IRP) Requirements (3GPP TS 32.531 version 16.0.0 Release 16)

TS 132 532 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Software management (SwM); Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.532 version 16.0.0 Release 16)

TS 132 536 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Software management Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.536 version 16.0.0 Release 16)

TS 132 541 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Self-Organizing Networks (SON); Self-healing concepts and requirements (3GPP TS 32.541 version 16.0.0 Release 16)

TS 132 551 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Energy Saving Management (ESM); Concepts and requirements (3GPP TS 32.551 version 16.0.0 Release 16)

TS 132 571 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home Node B (HNB) and Home eNode B (HeNB) management; Type 2 interface concepts and requirements (3GPP TS 32.571 version 16.0.0 Release 16)

TS 132 572 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home Node B (HNB) and Home eNode B (HeNB) management; Type 2 interface models and mapping functions (3GPP TS 32.572 version 16.0.0 Release 16)

TS 132 581 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Concepts and requirements for Type 1 interface HNB to HNB Management System (HMS) (3GPP TS 32.581 version 16.0.0 Release 16)

TS 132 582 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Information model for Type 1 interface HNB to HNB Management System (HMS) (3GPP TS 32.582 version 16.0.0 Release 16)

TS 132 583 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Procedure flows for Type 1 interface HNB to HNB Management System (HMS) (3GPP TS 32.583 version 16.0.0 Release 16)

TS 132 584 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); Telecommunication management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); XML definitions for Type 1 interface HNB to HNB Management System (HMS) (3GPP TS 32.584 version 16.0.0 Release 16)

TS 132 591 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Home enhanced Node B (HeNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Concepts and requirements for Type 1 interface HeNB to HeNB Management System (HeMS) (3GPP TS 32.591 version 16.0.0 Release 16)

TS 132 592 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Home enhanced Node B (HeNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Information model for Type 1 interface HeNB to HeNB Management System (HeMS) (3GPP TS 32.592 version 16.0.0 Release 16)

TS 132 593 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Home enhanced Node B (HeNB) Operations,

Administration, Maintenance and Provisioning (OAM&P); Procedure flows for Type 1 interface HeNB to HeNB Management System (HeMS) (3GPP TS 32.593 version 16.0.0 Release 16)

TS 132 594 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Telecommunication management; Home enhanced Node B (HeNB) Operations, Administration, Maintenance and Provisioning (OAM&P); XML definitions for Type 1 interface HeNB to HeNB Management System (HeMS) (3GPP TS 32.594 version 16.0.0 Release 16)

TS 132 600 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Concept and high-level requirements (3GPP TS 32.600 version 16.0.0 Release 16)

TS 132 601 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); Requirements (3GPP TS 32.601 version 16.0.0 Release 16)

TS 132 602 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.602 version 16.0.0 Release 16)

TS 132 606 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.606 version 16.0.0 Release 16)

TS 132 611 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Requirements (3GPP TS 32.611 version 16.0.0 Release 16)

TS 132 612 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Information Service (IS) (3GPP TS 32.612 version 16.0.0 Release 16)

TS 132 616 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.616 version 16.0.0 Release 16)

TS 132 661 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Kernel CM Requirements (3GPP TS 32.661 version 16.0.0 Release 16)

TS 132 662 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Kernel CM Information Service (IS) (3GPP TS 32.662 version 16.0.0 Release 16)

TS 132 666 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP); Solution Set (SS) definitions (3GPP TS 32.666 version 16.0.0 Release 16)

TS 132 690 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Inventory Management (IM); Requirements (3GPP TS 32.690 version 16.0.0 Release 16)

TR 132 901 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Study on User Data Convergence (UDC) information model handling and provisioning:

Example use cases (3GPP TR 32.901 version 16.0.0 Release 16)

TS 133 102 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); 3G security; Security architecture (3GPP TS 33.102 version 16.0.0 Release 16)

TS 133 105 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Cryptographic algorithm requirements (3GPP TS 33.105 version 16.0.0 Release 16)

TS 133 106 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Digital cellular telecommunications system (Phase 2+) (GSM); 3G security; Lawful interception requirements (3GPP TS 33.106 version 16.0.0 Release 16)

TS 133 107 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Digital cellular telecommunications system (Phase 2+) (GSM); 3G security; Lawful interception architecture and functions (3GPP TS 33.107 version 16.0.0 Release 16)

TS 133 110 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Key establishment between a Universal Integrated Circuit Card (UICC) and a terminal (3GPP TS 33.110 version 16.0.0 Release 16)

TS 133 116 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Security Assurance Specification (SCAS) for the MME network product class (3GPP TS 33.116 version 16.0.0 Release 16)

TS 133 117 V15.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Catalogue of general security assurance requirements (3GPP TS 33.117 version 15.5.0 Release 15)

TS 133 117 V16.5.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Catalogue of general security assurance requirements (3GPP TS 33.117 version 16.5.0 Release 16)

TS 133 122 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; 5G; Security aspects of Common API Framework (CAPIF) for 3GPP northbound APIs (3GPP TS 33.122 version 16.3.0 Release 16)

TS 133 141 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Presence service; Security (3GPP TS 33.141 version 16.0.0 Release 16)

TS 133 179 V13.11.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Security of Mission Critical Push To Talk (MCPTT) over LTE (3GPP TS 33.179 version 13.11.0 Release 13)

TS 133 180 V15.8.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Security of the mission critical service (3GPP TS 33.180 version 15.8.0 Release 15)

TS 133 180 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Security of the mission critical service (3GPP TS 33.180 version 16.4.0 Release 16)

TS 133 185 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; 5G; Security aspect for LTE support of Vehicle-to-Everything (V2X) services (3GPP TS 33.185 version 16.0.0 Release 16)

TS 133 187 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Security aspects of Machine-Type Communications (MTC) and other mobile data applications communications enhancements (3GPP TS 33.187 version 16.0.0 Release 16)

TS 133 203 V13.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Access security for IP-based services (3GPP TS 33.203 version 13.3.0 Release 13)

TS 133 203 V14.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Access security for IP-based services (3GPP TS 33.203 version 14.2.0 Release 14)

TS 133 203 V15.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Access security for IP-based services (3GPP TS 33.203 version 15.2.0 Release 15)

TS 133 203 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Access security for IP-based services (3GPP TS 33.203 version 16.0.0 Release 16)

TS 133 204 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Network Domain Security (NDS); Transaction Capabilities Application Part (TCAP) user security (3GPP TS 33.204 version 16.0.0 Release 16)

TS 133 210 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Network Domain Security (NDS); IP network layer security (3GPP TS 33.210 version 16.4.0 Release 16)

TS 133 216 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Security Assurance Specification (SCAS) for the evolved Node B (eNB) network product class (3GPP TS 33.216 version 16.4.0 Release 16)

TS 133 220 V16.1.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) (3GPP TS 33.220 version 16.1.0 Release 16)

TS 133 221 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Generic Authentication Architecture (GAA); Support for subscriber certificates (3GPP TS 33.221 version 16.0.0 Release 16)

TS 133 222 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS) (3GPP TS 33.222 version 16.0.0 Release 16)

TS 133 223 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function (3GPP TS 33.223 version 16.0.0 Release 16)

TS 133 224 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) push layer (3GPP TS 33.224 version 16.0.0 Release 16)

TS 133 234 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Wireless Local Area Network (WLAN) interworking security (3GPP TS 33.234 version 16.0.0 Release 16)

TS 133 246 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS) (3GPP TS 33.246 version 16.0.0 Release 16)

TS 133 250 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
LTE; Security assurance specification for the PGW network product class (3GPP TS 33.250 version 16.0.0 Release 16)

TS 133 259 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Key establishment between a UICC hosting device and a remote device (3GPP TS 33.259 version 16.0.0 Release 16)

TS 133 303 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Proximity-based Services (ProSe); Security aspects (3GPP TS 33.303 version 16.0.0 Release 16)

TS 133 310 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 5G; Network Domain Security (NDS); Authentication Framework (AF) (3GPP TS 33.310 version 16.4.0 Release 16)

TS 133 320 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Security of Home Node B (HNB) /

Home evolved Node B (HeNB) (3GPP TS 33.320 version 16.0.0 Release 16)

TS 133 328 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS) media plane security (3GPP TS 33.328 version 16.0.0 Release 16)

TS 133 401 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3GPP System Architecture Evolution (SAE); Security architecture (3GPP TS 33.401 version 16.3.0 Release 16)

TS 133 402 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses (3GPP TS 33.402 version 16.0.0 Release 16)

TS 133 501 V15.9.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Security architecture and procedures for 5G System (3GPP TS 33.501 version 15.9.0 Release 15)

TS 133 501 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Security architecture and procedures for 5G System (3GPP TS 33.501 version 16.3.0 Release 16)

TS 133 511 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; Security Assurance Specification (SCAS) for the next generation Node B (gNodeB) network product class (3GPP TS 33.511 version 16.4.0 Release 16)

TS 133 512 V16.3.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; 5G Security Assurance Specification (SCAS); Access and Mobility management Function (AMF) (3GPP TS 33.512 version 16.3.0 Release 16)

TS 133 514 V16.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; 5G Security Assurance Specification (SCAS) for the Unified Data Management (UDM) network product class (3GPP TS 33.514 version 16.2.0 Release 16)

TS 133 515 V16.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; 5G Security Assurance Specification (SCAS) for the Session Management Function (SMF)

network product class (3GPP TS 33.515 version 16.2.0 Release 16)

TS 133 518 V16.2.0:2020

Comitet Tehnic ETSI: 3GPP SA
5G; 5G Security Assurance Specification (SCAS) for the Network Repository Function (NRF) network product class (3GPP TS 33.518 version 16.2.0 Release 16)

TR 133 905 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Recommendations for Trusted Open Platforms (3GPP TR 33.905 version 16.0.0 Release 16)

TR 133 916 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Security Assurance Methodology (SCAS) for 3GPP network products (3GPP TR 33.916 version 16.0.0 Release 16)

TR 133 919 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Generic Authentication Architecture (GAA); System description (3GPP TR 33.919 version 16.0.0 Release 16)

TR 133 924 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Identity management and 3GPP security interworking; Identity management and Generic Authentication Architecture (GAA) interworking (3GPP TR 33.924 version 16.0.0 Release 16)

TR 133 937 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Study of mechanisms for Protection against Unsolicited Communication for IMS (PUCI) (3GPP TR 33.937 version 16.0.0 Release 16)

TR 133 969 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Study on security aspects of Public Warning System (PWS) (3GPP TR 33.969 version 16.0.0 Release 16)

TR 133 980 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase

2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Liberty Alliance and 3GPP security interworking; Interworking of Liberty Alliance Identity Federation Framework (ID-FF), Identity Web Services Framework (ID-WSF) and Generic Authentication Architecture (GAA) (3GPP TR 33.980 version 16.0.0 Release 16)

TR 133 995 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Study on security aspects of integration of Single Sign-On (SSO) frameworks with 3GPP operator-controlled resources and mechanisms (3GPP TR 33.995 version 16.0.0 Release 16)

TS 134 124 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 34.124 version 16.0.0 Release 16)

TS 134 229-5 V15.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
5G; Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 5: Protocol conformance specification using 5G System (5GS) (3GPP TS 34.229-5 version 15.0.0 Release 15)

TR 134 926 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP RAN
Universal Mobile Telecommunications System (UMTS); LTE; Electromagnetic compatibility (EMC); Table of international requirements for mobile terminals and ancillary equipment (3GPP TR 34.926 version 16.0.0 Release 16)

TS 135 201 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specification (3GPP TS 35.201 version 16.0.0 Release 16)

TS 135 202 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification (3GPP TS 35.202 version 16.0.0 Release 16)

TS 135 203 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the

3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data (3GPP TS 35.203 version 16.0.0 Release 16)

TS 135 204 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data (3GPP TS 35.204 version 16.0.0 Release 16)

TS 135 205 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General (3GPP TS 35.205 version 16.0.0 Release 16)

TS 135 206 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification (3GPP TS 35.206 version 16.0.0 Release 16)

TS 135 207 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data (3GPP TS 35.207 version 16.0.0 Release 16)

TS 135 208 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data (3GPP TS 35.208 version 16.0.0 Release 16)

TS 135 215 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications (3GPP TS 35.215 version 16.0.0 Release 16)

TS 135 216 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA

Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification (3GPP TS 35.216 version 16.0.0 Release 16)

TS 135 217 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data (3GPP TS 35.217 version 16.0.0 Release 16)

TS 135 218 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data (3GPP TS 35.218 version 16.0.0 Release 16)

TS 135 221 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms EEA3 & EIA3; Document 1: EEA3 and EIA3 specifications (3GPP TS 35.221 version 16.0.0 Release 16)

TS 135 222 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms EEA3 & EIA3; Document 2: ZUC specification (3GPP TS 35.222 version 16.0.0 Release 16)

TS 135 223 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms EEA3 & EIA3; Document 3: Implementors' test data (3GPP TS 35.223 version 16.0.0 Release 16)

TS 135 231 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the TUAK algorithm set: A second example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: Algorithm specification (3GPP TS 35.231 version 16.0.0 Release 16)

TS 135 232 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the TUAK algorithm

set: A second example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Implementers' test data (3GPP TS 35.232 version 16.0.0 Release 16)

TS 135 233 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the TUAK algorithm set: A second example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Design conformance test data (3GPP TS 35.233 version 16.0.0 Release 16)

TR 135 909 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; 3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation (3GPP TR 35.909 version 16.0.0 Release 16)

TR 135 919 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 5: Design and evaluation report (3GPP TR 35.919 version 16.0.0 Release 16)

TR 135 924 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the 3GPP Confidentiality and Integrity Algorithms EEA3 & EIA3; Document 4: Design and Evaluation Report (3GPP TR 35.924 version 16.0.0 Release 16)

TR 135 934 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the TUAK algorithm set: A second example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Report on the design and evaluation (3GPP TR 35.934 version 16.0.0 Release 16)

TR 135 935 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Universal Mobile Telecommunications System (UMTS); LTE; Specification of the TUAK algorithm set: A second example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Performance evaluation (3GPP TR 35.935 version 16.0.0 Release 16)

TR 135 936 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Universal Mobile Telecommunications System (UMTS); LTE; Specification of the TUAK algorithm set: A second example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 6: Security assessment (3GPP TR 35.936 version 16.0.0 Release 16)

TS 136 101 V12.25.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 12.25.0 Release 12)

TS 136 101 V14.15.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 14.15.0 Release 14)

TS 136 101 V15.11.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 15.11.0 Release 15)

TS 136 101 V16.6.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception (3GPP TS 36.101 version 16.6.0 Release 16)

TS 136 133 V13.19.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management (3GPP TS 36.133 version 13.19.0 Release 13)

TS 138 133 V16.4.0:2020

Comitet Tehnic ETSI: 3GPP RAN
 5G; NR; Requirements for support of radio resource management (3GPP TS 38.133 version 16.4.0 Release 16)

TR 141 031 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Fraud Information Gathering System (FIGS); Service requirements; Stage 0 (3GPP TR 41.031 version 16.0.0 Release 16)

TS 141 101 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Technical Specifications and

Technical Reports for a GERAN-based 3GPP system (3GPP TS 41.101 version 16.0.0 Release 16)

TS 143 010 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
 Digital cellular telecommunications system (Phase 2+) (GSM); GSM Public Land Mobile Network (PLMN) connection types (3GPP TS 43.010 version 16.0.0 Release 16)

TS 143 020 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
 Digital cellular telecommunications system (Phase 2+) (GSM); Security related network functions (3GPP TS 43.020 version 16.0.0 Release 16)

TS 143 045 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
 Digital cellular telecommunications system (Phase 2+) (GSM); Technical realization of facsimile group 3 transparent (3GPP TS 43.045 version 16.0.0 Release 16)

TS 143 068 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
 Digital cellular telecommunications system (Phase 2+) (GSM); Voice Group Call Service (VGCS); Stage 2 (3GPP TS 43.068 version 16.0.0 Release 16)

TS 143 069 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
 Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (3GPP TS 43.069 version 16.0.0 Release 16)

TS 144 001 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
 Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station - Base Station System (MS - BSS) interface; General aspects and principles (3GPP TS 44.001 version 16.0.0 Release 16)

TS 144 013 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
 Digital cellular telecommunications system (Phase 2+) (GSM); Performance requirements on the mobile radio interface (3GPP TS 44.013 version 16.0.0 Release 16)

TS 144 021 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
 Digital cellular telecommunications system (Phase 2+) (GSM); Rate adaption on the Mobile Station - Base Station System (MS - BSS) interface (3GPP TS 44.021 version 16.0.0 Release 16)

TS 144 056 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
 Digital cellular telecommunications system (Phase 2+) (GSM); GSM Cordless Telephony System

(CTS), Phase 1; CTS radio interface layer 3 specification (3GPP TS 44.056 version 16.0.0 Release 16)

TS 144 057 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); GSM Cordless Telephony System (CTS), Phase 1; CTS supervising system layer 3 specification (3GPP TS 44.057 version 16.0.0 Release 16)

TS 144 064 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station - Serving GPRS Support Node (MS-SGSN); Logical Link Control (LLC) Layer Specification (3GPP TS 44.064 version 16.0.0 Release 16)

TS 144 065 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP) (3GPP TS 44.065 version 16.0.0 Release 16)

TS 144 068 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Group Call Control (GCC) protocol (3GPP TS 44.068 version 16.0.0 Release 16)

TS 144 069 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Broadcast Call Control (BCC) protocol (3GPP TS 44.069 version 16.0.0 Release 16)

TS 148 020 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Rate adaption on the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface (3GPP TS 48.020 version 16.0.0 Release 16)

TS 149 008 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Application of the Base Station System Application Part (BSSAP) on the E interface (3GPP TS 49.008 version 16.0.0 Release 16)

TS 151 013 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP CT
Digital cellular telecommunications system (Phase 2+) (GSM); Test specification for Subscriber Identity Module (SIM) Application Programming Interface (API) for Java Card (3GPP TS 51.013 version 16.0.0 Release 16)

TS 152 008 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Telecommunication management; GSM subscriber and equipment trace (3GPP TS 52.008 version 16.0.0 Release 16)

TS 152 402 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Telecommunication management; Performance Management (PM); Performance measurements - GSM (3GPP TS 52.402 version 16.0.0 Release 16)

TS 155 205 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the GSM-MILENAGE algorithms: An example algorithm set for the GSM Authentication and Key Generation Functions A3 and A8 (3GPP TS 55.205 version 16.0.0 Release 16)

TS 155 216 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); 3G Security; Specification of the A5/3 encryption algorithms for GSM and ECSD, and the GEA3 encryption algorithm for GPRS; Document 1: A5/3 and GEA3 specifications (3GPP TS 55.216 version 16.0.0 Release 16)

TS 155 217 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); 3G Security; Specification of the A5/3 encryption algorithms for GSM and ECSD, and the GEA3 encryption algorithm for GPRS; Document 2: Implementors' test data (3GPP TS 55.217 version 16.0.0 Release 16)

TS 155 218 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); 3G Security; Specification of the A5/3 encryption algorithms for GSM and ECSD, and the GEA3 encryption algorithm for GPRS; Document 3: Design conformance test data (3GPP TS 55.218 version 16.0.0 Release 16)

TS 155 226 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); 3G Security; Specification of the A5/4 Encryption Algorithms for GSM and ECSD, and the GEA4 Encryption Algorithm for GPRS (3GPP TS 55.226 version 16.0.0 Release 16)

TS 155 236 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Specification of A8_V MILENAGE

Algorithm: An example algorithm for the key generation function A8_V (3GPP TS 55.236 version 16.0.0 Release 16)

TS 155 241 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the GIA4 integrity algorithm for General Packet Radio Service (GPRS); GIA4 specification (3GPP TS 55.241 version 16.0.0 Release 16)

TS 155 242 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the GIA4 integrity algorithm for General Packet Radio Service (GPRS); Implementers' test data (3GPP TS 55.242 version 16.0.0 Release 16)

TS 155 243 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the GIA4 integrity algorithm for General Packet Radio Service (GPRS); Design conformance test data (3GPP TS 55.243 version 16.0.0 Release 16)

TS 155 251 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the GEA5 and GIA5 encryption algorithms for General Packet Radio Service (GPRS); GEA5 and GIA5 algorithm specification (3GPP TS 55.251 version 16.0.0 Release 16)

TS 155 252 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the GEA5 encryption and GIA5 integrity algorithms for General Packet Radio Service (GPRS); Implementers' test data (3GPP TS 55.252 version 16.0.0 Release 16)

TS 155 253 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the GEA5 encryption and GIA5 integrity algorithms for General Packet Radio Service (GPRS); Design conformance test data (3GPP TS 55.253 version 16.0.0 Release 16)

TR 155 919 V16.0.0:2020

Comitet Tehnic ETSI: 3GPP SA
Digital cellular telecommunications system (Phase 2+) (GSM); 3G Security; Specification of the A5/3 encryption algorithms for GSM and ECSD, and

the GEA3 encryption algorithm for GPRS; Document 4: Design and evaluation report (3GPP TR 55.919 version 16.0.0 Release 16)

ES 203 119-1 V1.5.1:2020

Comitet Tehnic ETSI: MTS TDL
Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 1: Abstract Syntax and Associated Semantics

ES 203 119-2 V1.4.1:2020

Comitet Tehnic ETSI: MTS TDL
Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 2: Graphical Syntax

ES 203 119-3 V1.4.1:2020

Comitet Tehnic ETSI: MTS TDL
Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 3: Exchange Format

ES 203 119-4 V1.4.1:2020

Comitet Tehnic ETSI: MTS TDL
Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 4: Structured Test Objective Specification (Extension)

ES 203 119-6 V1.2.1:2020

Comitet Tehnic ETSI: MTS TDL
Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 6: Mapping to TTCN-3

ES 203 119-7 V1.2.1:2020

Comitet Tehnic ETSI: MTS TDL
Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 7: Extended Test Configurations

EN 302 208 V3.3.1:2020

Comitet Tehnic ETSI: ERM TG34
Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard for access to radio spectrum

EN 302 307-2 V1.2.1:2020

Comitet Tehnic ETSI: BROADCASTAS
Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications; Part 2: DVB-S2 Extensions (DVB-S2X)

În perioada 2021.02.01 – 2021.02.28

Proiectele de standarde de mai jos sunt supuse anchetei publice. Asupra acestor proiecte poate face observații orice persoană fizică sau juridică, la adresa ancheta publica@asro.ro. Proiectele pot fi obținute de la ASRO precizând indicativul și titlul proiectului. Termenul limită până la care se pot trimite comentarii este cu 30 zile calendaristice înainte de termenul limită de vot (dea), indicat după fiecare proiect.

prEN 4650

Aerospace series - Wire and cable marking process, UV Laser
dea: 2020-11-19

1:2018/Amd 1:2020)

dea: 2020-11-12

01.110 Documentație tehnică de produs**FprCEN/TR 15071**

Safety of toys - National translations of warnings and instructions for use in the EN 71 series
dea: 2020-11-05

EN ISO 129-1:2019/prA1

Technical product documentation (TPD) - Presentation of dimensions and tolerances - Part 1: General principles - Amendment 1 (ISO 129-1:2018/Amd 1:2020)
dea: 2020-11-12

FprCEN/TS 17496

Cooperative intelligent transport systems - Communication profiles
dea: 2020-10-29

03.100 Organizarea și managementul întreprinderii. Sisteme de management**01.040 Vocabulare****03.100.01 Organizarea și managementul întreprinderii în general****01.040.03 Servicii. Organizarea întreprinderilor, management și calitate . Administrare. Transport. Sociologie. (Vocabulare)****prEN ISO 56000**

Innovation management - Fundamentals and vocabulary (ISO 56000:2020)
dea: 2020-11-12

prEN ISO 56000

Innovation management - Fundamentals and vocabulary (ISO 56000:2020)
dea: 2020-11-12

prEN ISO 56002

Innovation management - Innovation management system - Guidance (ISO 56002:2019)
dea: 2020-11-12

01.040.25 Tehnici de fabricare (Vocabulare)**prEN ISO 56003**

Innovation management - Tools and methods for innovation partnership - Guidance (ISO 56003:2019)
dea: 2020-11-12

prEN ISO 18785-1

Friction stir spot welding - Aluminium - Part 1: Vocabulary (ISO 18785-1:2018)
dea: 2020-11-05

03.100.40 Cercetare și dezvoltare**01.040.87 Industria de vopsele și coloranți (Vocabulare)****prEN ISO 56000**

Innovation management - Fundamentals and vocabulary (ISO 56000:2020)
dea: 2020-11-12

prEN ISO 22553-1

Paints and varnishes - Electro-deposition coatings - Part 1: Vocabulary (ISO 22553-1:2019)
dea: 2020-10-29

prEN ISO 56002

Innovation management - Innovation management system - Guidance (ISO 56002:2019)
dea: 2020-11-12

01.100 Desene tehnice**01.100.01 Desene tehnice în general****prEN ISO 56003**

Innovation management - Tools and methods for innovation partnership - Guidance (ISO

EN ISO 129-1:2019/prA1

Technical product documentation (TPD) - Presentation of dimensions and tolerances - Part 1: General principles - Amendment 1 (ISO 129-

56003:2019)
dea: 2020-11-12

03.100.70 Sisteme de management

prEN ISO/IEC 27017

Information technology - Security techniques - Code of practice for information security controls based on ISO/IEC 27002 for cloud services (ISO/IEC 27017:2015)
dea: 2020-11-19

prEN ISO 56002

Innovation management - Innovation management system - Guidance (ISO 56002:2019)
dea: 2020-11-12

03.220 Transport

03.220.01 Transport în general

FprCEN ISO/TS 21184

Cooperative intelligent transport systems (C-ITS) - Global transport data management (GTDM) framework (ISO/DTS 21184:2020)
dea: 2020-11-10

07.100 Microbiologie

07.100.30 Microbiologie alimentară

EN ISO 15216-1:2017/prA1

Microbiology of the food chain - Horizontal method for determination of hepatitis A virus and norovirus using real-time RT-PCR - Part 1: Method for quantification - Amendment 1 (ISO 15216-1:2017/DAM 1:2020)
dea: 2020-11-17

11.100 Medicină de laborator

11.100.10 Sisteme pentru încercări de diagnostic in vitro

prEN ISO 20184-3

Molecular in vitro diagnostic examinations - Specifications for pre-examination processes for frozen tissue - Part 3: Isolated DNA (ISO/DIS 20184-3:2020)
dea: 2020-10-26

11.180 Ajutoare pentru invalizi sau persoane cu handicap

11.180.10 Mijloace ajutătoare pentru mers

prEN 12183

Manual wheelchairs - Requirements and test methods
dea: 2020-10-29

13.020 Protecția mediului

13.020.50 Etichetare ecologică

EN ISO 14021:2016/prA1

Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) - Amendment 1: Carbon footprint, carbon neutral (ISO 14021:2016/DAM 1:2020)
dea: 2020-11-03

13.160 Vibrații, șocuri și efectele lor asupra omului

prEN ISO 22867

Forestry and gardening machinery - Vibration test code for portable hand-held machines with internal combustion engine - Vibration at the handles (ISO/DIS 22867:2020)
dea: 2020-11-02

13.220 Protecția contra incendiilor

13.220.50 Rezistența la foc a materialelor și a elementelor de construcții

prEN 1366-10

Fire resistance tests for service installations - Part 10: Smoke control dampers
dea: 2020-10-29

13.230 Protecția contra exploziilor

prEN 15967

Determination of maximum explosion pressure and the maximum rate of pressure rise of gases and vapours
dea: 2020-11-05

23.020 Mijloace pentru stocarea fluidelor

23.020.35 Butelii de gaz

prEN 14894 rev

LPG equipment and accessories - Cylinder and drum marking
dea: 2020-10-29

prEN ISO 20475

Gas cylinders - Cylinder bundles - Periodic inspection and testing (ISO 20475:2018)
dea: 2020-11-12

prEN ISO 23088

Gas cylinders - Periodic inspection and testing of welded steel pressure drums - Capacities up to 1 000 l (ISO 23088:2020)
dea: 2020-11-12

23.040 Conducte și accesorii

23.040.05 Conducte și părțile lor pentru sistemele de colectare a apelor uzate și a apelor pluviale

prEN 476

General requirements for components used in drains and sewers
dea: 2020-11-19

23.040.20 Tevi din materiale plastice

FprCEN/TS 1329-2

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly(vinyl chloride) (PVC-U) - Part 2: Guidance for the assessment of conformity
dea: 2020-10-29

prEN ISO 13479

Polyolefin pipes for the conveyance of fluids - Determination of resistance to crack propagation - Test method for slow crack growth on notched pipes (ISO/DIS 13479:2020)
dea: 2020-11-06

23.040.60 Flanșe, cuplaje și alte îmbinări

prEN 14525

Ductile iron wide tolerance couplings and flange adaptors for use with pipes of different materials: ductile iron, Grey iron, Steel, PVC-U, PE, Fibre-cement
dea: 2020-11-05

23.060 Robinetărie

23.060.01 Robinetărie în general

prEN ISO 8233

Thermoplastics valves - Torque - Test method (ISO/DIS 8233:2020)
dea: 2020-11-09

23.060.40 Regulate de presiune

prEN 1643

Safety and control devices for burners and appliances burning gaseous and/or liquid fuels - Valve proving systems for automatic shut-off valves
dea: 2020-11-19

25.160 Sudare și lipire

25.160.01 Sudare și lipire în general

prEN ISO 18785-3

Friction stir spot welding - Aluminium - Part 3: Qualification of welding personnel (ISO 18785-3:2018)
dea: 2020-11-05

25.160.10 Procedee de sudare

prEN 15085-4

Railway applications - Welding of railway vehicles

and components - Part 4: Production requirements
dea: 2020-10-29

prEN ISO 18785-4

Friction stir spot welding - Aluminium - Part 4: Specification and qualification of welding procedures (ISO 18785-4:2018)
dea: 2020-11-05

prEN ISO 18785-5

Friction stir spot welding - Aluminium - Part 5: Quality and inspection requirements (ISO 18785-5:2018)
dea: 2020-11-05

25.160.20 Materiale pentru sudare

prEN ISO 5829

Resistance spot welding - Electrode adaptors, female taper 1:10 (ISO 5829:1984)
dea: 2020-11-05

prEN ISO 5830

Resistance spot welding - Male electrode caps (ISO 5830:1984)
dea: 2020-11-05

prEN ISO 20168

Resistance welding - Locking tapers for electrode holders and electrode caps (ISO 20168:2016)
dea: 2020-11-05

25.160.30 Mașini de sudare

prEN ISO 7285

Pneumatic cylinders for mechanized multiple spot welding (ISO 7285:1995)
dea: 2020-11-05

prEN ISO 10656

Resistance welding Equipment - Transformers - Integrated transformers for welding guns (ISO 10656:2016)
dea: 2020-11-05

prEN ISO 15616-4

Acceptance tests for CO₂-laser beam machines for high quality welding and cutting - Part 4: Machines with 2-D moving optics (ISO 15616-4:2008)
dea: 2020-11-05

25.160.40 Materiale de adaos

prEN ISO 18785-1

Friction stir spot welding - Aluminium - Part 1: Vocabulary (ISO 18785-1:2018)
dea: 2020-11-05

prEN ISO 18785-2

Friction stir spot welding - Aluminium - Part 2 -

Design of weld joints (ISO 18785-2:2018)
dea: 2020-11-05

25.220 Tratamente și acoperiri de suprafață

25.220.20 Tratarea suprafeței

prEN ISO 14922

Thermal spraying - Quality requirements for manufacturers of thermal sprayed coatings - Quality assurance system (ISO/DIS 14922:2020)
dea: 2020-11-19

25.220.60 Acoperiri organice

prEN 13523-0

Coil coated metals - Test methods - Part 0: General introduction
dea: 2020-11-19

prEN 13523-2

Coil coated metals - Test methods - Part 2: Gloss
dea: 2020-11-19

27.080 Pompe de căldură

EN 16147:2017/prA1

Heat pumps with electrically driven compressors - Testing, performance rating and requirements for marking of domestic hot water units
dea: 2020-10-29

27.190 Energie biologică și alte surse de energie alternativă

prEN ISO 23343-1

Solid biofuels - Determination of water sorption and its effect on durability of thermally treated biomass fuels - Part 1: Pellets (ISO/DIS 23343-1:2020)
dea: 2020-10-28

29.180 Transformatoare. Bobine de inductanță

prEN ISO 10656

Resistance welding Equipment - Transformers - Integrated transformers for welding guns (ISO 10656:2016)
dea: 2020-11-05

35.030 Securitatea IT

prEN ISO/IEC 27017

Information technology - Security techniques - Code of practice for information security controls based on ISO/IEC 27002 for cloud services (ISO/IEC 27017:2015)
dea: 2020-11-19

35.240 Aplicații privind tehnologia informației

35.240.60 Aplicații IT în transport

FprCEN ISO/TS 21184

Cooperative intelligent transport systems (C-ITS) - Global transport data management (GTDM) framework(ISO/DTS 21184:2020)
dea: 2020-11-10

39.060 Giuvaergerie

prEN ISO 11426

Jewellery and precious metals - Determination of gold - Cupellation method (fire assay) (ISO/DIS 11426:2020)
dea: 2020-11-17

43.180 Dispozitive de diagnosticare, mentenanță și echipament de încercare

prEN 1493

Vehicle lifts
dea: 2020-11-05

45.060 Material rulant pentru căi ferate

45.060.01 Material rulant pentru căi ferate în general

EN 14067-6:2018/prA1:2020

Railway applications - Aerodynamics - Part 6: Requirements and test procedures for cross wind assessment
dea: 2020-11-12

prEN 15085-4

Railway applications - Welding of railway vehicles and components - Part 4: Production requirements
dea: 2020-10-29

45.140 Echipamente pentru metrou, tramvai și metrou ușor

EN 14752:2019/prA1

Railway applications - Bodyside entrance systems for rolling stock
dea: 2020-11-19

49.035 Componente pentru construcția aeronavelor

prEN 4880

Aerospace series - General technical specification for standard parts
dea: 2020-11-19

49.060 Echipament electric

prEN 2665-001

Aerospace series - Circuit breakers, three-pole, temperature compensated, rated currents 20 A to 50 A - Part 001: Technical specification
dea: 2020-10-29

prEN 2794-001

Aerospace series - Circuit breakers, single-pole, temperature compensated, rated currents 20 A to 50 A - Part 001: Technical specification
dea: 2020-10-29

prEN 2995-001

Aerospace series - Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A - Part 001: Technical specification
dea: 2020-10-29

prEN 3773-001

Aerospace series - Circuit breakers, single-pole, temperature compensated, rated currents 1 A to 25 A - Part 001: Technical specification
dea: 2020-10-29

49.080 Sisteme aerospațiale pentru fluide și componentele lor

prEN 3572

Aerospace series - PTFE flexible hose assembly with convoluted inner tube of a nominal pressure up to 6 800 kPa and 8°30' fitting in titanium - Product standard
dea: 2020-10-29

53.020 Instalații de ridicat

53.020.99 Alte instalații de ridicat

prEN 1493

Vehicle lifts
dea: 2020-11-05

prEN 1570-1

Safety requirements for lifting tables - Part 1: Lifting tables serving up to two fixed landings
dea: 2020-11-19

55.120 Cutii. Tuburi

prEN 15421

Packaging - Flexible aluminium tubes - Determination of the adhesion of the internal and external protective lacquering
dea: 2020-11-19

prEN 16285

Packaging - Flexible aluminium tubes - Test method to measure the deformation of the aluminium tube body (Guillotine test)
dea: 2020-11-19

55.200 Mașini de împachetat

prEN 415-11

Safety of packaging machines - Part 11: Determination of efficiency and availability
dea: 2020-11-19

61.020 Îmbrăcăminte

FprCEN/TS 17394-1

Textiles and textile products - Part 1: Safety of children's clothing - Security of attachment of attached components to infants' clothing - Specification
dea: 2020-11-12

FprCEN/TS 17394-3

Textiles and textile products - Part 3: Safety of children's clothing - Security of attachment of metal mechanically applied press fasteners - Test method
dea: 2020-11-12

FprCEN/TS 17394-4

Textiles and textile products - Part 4: Safety of children's clothing - Security of attachment of components except buttons and metal mechanically applied press fasteners - Test method
dea: 2020-11-12

65.060 Mașini și echipamente agricole

65.060.80 Echipamente forestiere

prEN ISO 22867

Forestry and gardening machinery - Vibration test code for portable hand-held machines with internal combustion engine - Vibration at the handles (ISO/DIS 22867:2020)
dea: 2020-11-02

65.080 Îngrășăminte

FprCEN/TS 17403

Fertilizers - Determination of cold water insoluble nitrogen and hot water insoluble nitrogen in solid urea formaldehyde and methylene urea slow-release fertilizers and determination of the solubility of nutrient polymers in phosphate buffer solution with a pH of 7,5 at 100 °C
dea: 2020-10-29

65.120 Nutrețuri

prEN 17547

Animal feeding stuffs: Methods of sampling and analysis - Determination of vitamin A, E and D content - Method using solid phase extraction clean-up and High Performance Liquid Chromatography
dea: 2020-11-05

67.060 Cereale, leguminoase și produse derivate

prEN 16923

Foodstuffs - Determination of T-2 toxin and HT-2 toxin in cereals and cereal products for infants and young children by SPE clean up and HPLC-MS/MS
dea: 2020-11-19

67.230 Alimente preparate și preambalate**prEN 16923**

Foodstuffs - Determination of T-2 toxin and HT-2 toxin in cereals and cereal products for infants and young children by SPE clean up and HPLC-MS/MS

dea: 2020-11-19

75.160 Combustibili**75.160.40 Biocombustibili****prEN ISO 23343-1**

Solid biofuels - Determination of water sorption and its effect on durability of thermally treated biomass fuels - Part 1: Pellets (ISO/DIS 23343-1:2020)

dea: 2020-10-28

77.060 Coroziunea metalelor**prEN ISO 18086**

Corrosion of metals and alloys - Determination of AC corrosion - Protection criteria (ISO 18086:2019)

dea: 2020-11-12

77.150 Produse din metale neferoase**77.150.10 Produse din aluminiu****prEN 603-3**

Aluminium and aluminium alloys - Wrought forging stock - Part 3: Tolerances on dimensions and form

dea: 2020-11-12

81.060 Ceramică**81.060.30 Ceramică de tehnică avansată****prEN ISO 14705**

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for hardness of monolithic ceramics at room temperature (ISO 14705:2016)

dea: 2020-11-19

prEN ISO 17172

Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of compaction properties of ceramic powders (ISO 17172:2014)

dea: 2020-11-19

prEN ISO 18610

Fine ceramics (advanced ceramics, advanced technical ceramics) - Mechanical properties of ceramic composites at ambient temperature in air atmospheric pressure - Determination of elastic properties by ultrasonic technique (ISO 18610:2016)

dea: 2020-11-19

83.040 Materii prime pentru industria cauciucului și industria materialelor plastice**83.040.30 Materiale auxiliare și aditivi pentru materiale plastice****prEN ISO 1043-4**

Plastics - Symbols and abbreviated terms - Part 4: Flame retardants (ISO/DIS 1043-4:2020)

dea: 2020-10-26

83.080 Materiale plastice**83.080.01 Materiale plastice, în general****prEN ISO 1043-4**

Plastics - Symbols and abbreviated terms - Part 4: Flame retardants (ISO/DIS 1043-4:2020)

dea: 2020-10-26

83.140 Produse din cauciuc și materiale plastice**83.140.30 Țevi de material plastic și fittinguri pentru utilizări fără fluide****prEN ISO 8233**

Thermoplastics valves - Torque - Test method (ISO/DIS 8233:2020)

dea: 2020-11-09

83.140.99 Alte produse din cauciuc și materiale plastice**prEN 14963-1**

Prefabricated accessories for roofing - Part 1: Continuous plastic rooflights - Product specification and test methods

dea: 2020-11-12

83.180 Adezivi**prEN ISO 22636**

Adhesives - Adhesives for floor coverings - Requirements for mechanical and electrical performance (ISO 22636:2020)

dea: 2020-11-12

87.040 Vopsele și emailuri**prEN ISO 20266**

Paints and varnishes - Determination of image clarity (degree of sharpness of reflected or transmitted image) (ISO 20266:2018)

dea: 2020-10-29

prEN ISO 21545

Paints and varnishes - Determination of settling (ISO 21545:2018)

dea: 2020-10-29

prEN ISO 21546

Paints and varnishes - Determination of the resistance to rubbing using a linear abrasion tester (crockmeter) (ISO 21546:2019)
dea: 2020-10-29

prEN ISO 22516

Paints and varnishes - Practical determination of non-volatile and volatile matter content during application (ISO 22516:2019)
dea: 2020-10-29

prEN ISO 22518

Paints and varnishes - Determination of solvents in water-thinnable coating materials - Gas-chromatographic method (ISO 22518:2019)
dea: 2020-10-29

prEN ISO 22553-1

Paints and varnishes - Electro-deposition coatings - Part 1: Vocabulary (ISO 22553-1:2019)
dea: 2020-10-29

prEN ISO 22553-2

Paints and varnishes - Electro-deposition coatings - Part 2: Throwing power (ISO 22553-2:2019)
dea: 2020-10-29

prEN ISO 22553-3

Paints and varnishes - Electro-deposition coatings - Part 3: Compatibility of electro-deposition coating materials with a reference oil (ISO 22553-3:2019)
dea: 2020-10-29

prEN ISO 22553-4

Paints and varnishes - Electro-deposition coatings - Part 4: Compatibility of electro-deposition coating materials with liquid, paste-like and solid foreign materials (ISO 22553-4:2019)
dea: 2020-10-29

prEN ISO 22553-5

Paints and varnishes - Electro-deposition coatings - Part 5: Determination of sieve residue (ISO 22553-5:2019)
dea: 2020-10-29

prEN ISO 22553-6

Paints and varnishes - Electro-deposition coatings - Part 6: Entry marks (ISO 22553-6:2019)
dea: 2020-10-29

prEN ISO 22557

Paints and varnishes - Scratch test using a spring-loaded pen (ISO 22557:2019)
dea: 2020-10-29

prEN ISO 22969

Paints and varnishes - Determination of solar reflectance (ISO 22969:2019)
dea: 2020-10-29

prEN ISO 22970

Paints and varnishes - Test method for evaluation of adhesion of elastic adhesives on coatings by peel test, peel strength test and tensile lap-shear strength test with additional stress by condensation test or cataplasma storage (ISO 22970:2019)
dea: 2020-10-29

prEN ISO 23168

Paints and varnishes - Determination of water content - Gas-chromatographic method
dea: 2020-10-29

prEN ISO 23321

Solvents for paints and varnishes - Demineralized water for industrial applications - Specification and test methods (ISO 23321:2019)
dea: 2020-10-29

91.060 Elemente ale construcțiilor

91.060.20 Acoperișuri

prEN 1873-1

Prefabricated accessories for roofing - Individual plastic rooflights - Product specification and test methods
dea: 2020-10-29

prEN 14963-1

Prefabricated accessories for roofing - Part 1: Continuous plastic rooflights - Product specification and test methods
dea: 2020-11-12

91.100 Materiale de construcții

91.100.15 Materiale și produse minerale

prEN 1097-6

Tests for mechanical and physical properties of aggregates - Part 6: Determination of particle density and water absorption
dea: 2020-11-19

91.100.23 Plăci și dale ceramice

prEN ISO 10545-15

Ceramic tiles - Part 15: Determination of lead and cadmium given off by tiles (ISO/DIS 10545-15:2020)
dea: 2020-11-19

91.100.40 Produse de ciment armate cu fibre

prEN 17468-1

Fibre cement products - Determination of pull through and shear resistance and bending strength calculations - Part 1: Flat sheets
dea: 2020-10-29

prEN 17468-2

Fibre cement products - Determination of pull through and shear resistance and bending strength calculations - Part 2: Profiled sheets
dea: 2020-10-29

91.140 Instalații în clădiri**91.140.30 Ventilație și climatizare****prEN 1366-10**

Fire resistance tests for service installations - Part 10: Smoke control dampers
dea: 2020-10-29

91.140.80 Sisteme de evacuare a apei**FprCEN/TS 1329-2**

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly(vinyl chloride) (PVC-U) - Part 2: Guidance for the assessment of conformity
dea: 2020-10-29

91.190 Accesorii pentru construcții**prEN 13126-4**

Building hardware - Hardware for windows and door height windows - Requirements and test methods - Part 4: Espagnolettes
dea: 2020-11-12

93.030 Sisteme de canalizare externe**prEN 476**

General requirements for components used in

drains and sewers

dea: 2020-11-19

97.190 Echipamente pentru copii**FprCEN/TS 17394-1**

Textiles and textile products - Part 1: Safety of children's clothing - Security of attachment of attached components to infants' clothing - Specification
dea: 2020-11-12

FprCEN/TS 17394-3

Textiles and textile products - Part 3: Safety of children's clothing - Security of attachment of metal mechanically applied press fasteners - Test method
dea: 2020-11-12

FprCEN/TS 17394-4

Textiles and textile products - Part 4: Safety of children's clothing - Security of attachment of components except buttons and metal mechanically applied press fasteners - Test method
dea: 2020-11-12

97.220 Echipamente și instalații sportive**97.220.10 Instalații sportive****prEN 15330-4**

Surfaces for sports areas - Synthetic turf and needle-punched surfaces primarily designed for outdoor use - Part 4: Specification for shockpads used with synthetic turf, needle-punch and textile sports surfaces
dea: 2020-10-29



**PROIECTE DE STANDARDE / DOCUMENTE DE STANDARDIZARE
EUROPENE CENELEC SUPUSE ANCHETEI PUBLICE**

În perioada 2021.02.01 – 2021.02.28

Proiectele de standarde de mai jos sunt supuse anchetei publice. Asupra acestor proiecte poate face observații orice persoană fizică sau juridică, la adresa ancheta.publica@asro.ro. Proiectele pot fi obținute de la ASRO precizând indicativul și titlul standardului. Termenul limită până la care se pot trimite comentarii este cu 30 zile calendaristice înainte de termenul limită de vot (dea), indicat după fiecare proiect.

prEN 50286

Electrical insulating protective clothing for low-voltage installations
dea: 2020-11-13

prEN 50491-12-2

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 12-2: Smart grid – Application specification -

Interface and framework for customer - Interface between the Home / Building CEM
dea: 2020-10-30

prEN 50708-2-3

Power transformers - Additional European requirements - Part 2-3: Medium power transformer - Accessories
dea: 2020-10-30

prEN 50708-2-4

Power transformers - Additional European requirements - Part 2-4: Medium power transformer - Special tests
dea: 2020-10-30

prEN 50708-2-5

Power transformers - Additional European requirements - Part 2-5: Medium power transformer - Single phase
dea: 2020-10-30

prEN 50708-2-6

Power transformers - Additional European requirements: Part 2-6 Medium power transformers - Non conventional technologies
dea: 2020-10-30

FprEN IEC 60335-2-75:2020/prA2:2020

Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines
dea: 2020-11-20

prEN 60335-2-25

Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens
dea: 2020-10-30

prEN 60335-2-25/prAA:2020

Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens
dea: 2020-10-30

prEN IEC 60794-1-211:2020

Optical fibre cables - Part 1-211: Generic specification - Basic optical cable test procedures - Environmental test methods - Sheath shrinkage, Method F11
dea: 2020-10-30

prEN IEC 60794-3-12:2020

Optical fibre cables - Part 3-12: Outdoor cables - Detailed specification for duct and directly buried optical telecommunication cables for use in premises cabling
dea: 2020-10-30

prEN IEC 60958-5:2020

Digital audio interface - Part 5: Consumer application enhancement (TA 20)
dea: 2020-10-30

prEN IEC 61076-2-011:2020

Connectors for electrical and electronic equipment - Product requirements - Part 2-011: Circular connectors - Detail specification for B12 bayonet coupling connectors based on mating interfaces

according to IEC 61076-2-101 and IEC 61076-2-109
dea: 2020-10-30

prEN IEC 61189-5-301:2020

Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 5-301: Test methods for printed board assemblies - Soldering paste using fine solder particles
dea: 2020-11-06

prEN IEC 61375-2-8:2020

Electronic railway equipment - Train communication network (TCN) - Part 2-8: TCN conformance test of ETB, ECN and Communication profile
dea: 2020-10-30

prEN IEC 61400-50-3:2020

Wind energy generation systems - Part 50-3: Use of nacelle mounted lidars for wind measurements
dea: 2020-11-13

prEN IEC 61753-085-2:2020

Fibre optic interconnecting devices and passive components performance standard - Part 085-2: Nonconnectorized single-mode pigtailed CWDM devices for category C - Indoor controlled environment
dea: 2020-10-30

prEN IEC 61788-22-2:2020

Normal state resistance and critical current measurement – high-Tc Josephson junction
dea: 2020-11-13

FprEN IEC 62841-3-7:2020/prAA

Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-7: Particular requirements for transportable wall saws
dea: 2020-11-06

EN IEC 63044-1:2017/prA1:2020

Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 1: General requirements
dea: 2020-11-06

EN IEC 63044-3:2018/prA1:2020

Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 3: Electrical safety requirements
dea: 2020-11-06

prEN IEC 63044-4:2020

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 4: General functional safety requirements for products intended to be integrated in Building Electronic Systems (HBES) and Building

Automation and Control Systems (BACS)
dea: 2020-11-06

prEN IEC 63044-6-1:2020

General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 6: Requirements for planning and installation
dea: 2020-11-06

prEN IEC 63327:2020

Automatic floor treatment machines for commercial use - Particular requirements
dea: 2020-11-20

11.040 Echipament medical

11.040.50 Echipament radiologic

EN IEC 60601-1-3:2008/prA2:2020

Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment
dea: 2020-10-30

13.280 Protecția contra radiațiilor

EN IEC 60601-1-3:2008/prA2:2020

Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment
dea: 2020-10-30

17.220 Electricitate. Magnetism. Măsurări electrice și magnetice

17.220.20 Măsurări de mărimi electrice și magnetice

FprEN IEC 61557-12:2018/prA1:2020

Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 12: Power metering and monitoring devices (PMD)
dea: 2020-11-20

29.060 Conductoare și cabluri electrice

29.060.10 Conductoare

EN 61534-21:2014/prAA

Powertrack systems - Part 21: Particular requirements for powertrack systems intended for wall and ceiling mounting
dea: 2020-11-13

EN 61534-22:2014/prAA

Powertrack systems - Part 22: Particular requirements for powertrack systems intended for

onfloor or underfloor installation
dea: 2020-11-13

EN IEC 61534-21:2014/prA1:2020

Powertrack systems - Part 21: Particular requirements for powertrack systems intended for wall and ceiling mounting
dea: 2020-11-13

EN IEC 61534-22:2014/prA1:2020

Powertrack systems - Part 22: Particular requirements for powertrack systems intended for onfloor or underfloor installation
dea: 2020-11-13

29.060.20 Cabluri

prHD 626 S2

Overhead distribution cables of rated voltage U0/U(Um): 0,6/1 (1,2) kV
dea: 2020-11-13

29.080 Izolații electrice

29.080.01 Izolații electrice în general

FprEN IEC 61557-12:2018/prA1:2020

Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 12: Power metering and monitoring devices (PMD)
dea: 2020-11-20

29.120 Accesorii electrice

29.120.20 Dispozitive de conectare

EN 61534-21:2014/prAA

Powertrack systems - Part 21: Particular requirements for powertrack systems intended for wall and ceiling mounting
dea: 2020-11-13

EN 61534-22:2014/prAA

Powertrack systems - Part 22: Particular requirements for powertrack systems intended for onfloor or underfloor installation
dea: 2020-11-13

EN IEC 61534-21:2014/prA1:2020

Powertrack systems - Part 21: Particular requirements for powertrack systems intended for wall and ceiling mounting
dea: 2020-11-13

EN IEC 61534-22:2014/prA1:2020

Powertrack systems - Part 22: Particular requirements for powertrack systems intended for onfloor or underfloor installation
dea: 2020-11-13

29.130 Aparate de conectare și comandă

**29.130.10 Aparate de conectare și
comandă de înaltă tensiune**

prEN IEC 62271-112:2020

High-voltage switchgear and controlgear - Part 112: Alternating current high-speed earthing switches for secondary arc extinction on transmission lines
dea: 2020-11-13

**29.130.20 Aparate de conectare și
comandă de joasă tensiune**

prEN IEC 60947-8:2020

Low-voltage switchgear and controlgear - Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines
dea: 2020-11-20

**29.130.99 Alte aparate de conectare și de
comandă**

prEN IEC 62271-112:2020

High-voltage switchgear and controlgear - Part 112: Alternating current high-speed earthing switches for secondary arc extinction on transmission lines
dea: 2020-11-13

29.140 Lămpi și accesorii

29.140.20 Lămpi cu incandescență

prEN IEC 60809

Lamps and light sources for road vehicles - Dimensional, electrical and luminous requirements
dea: 2020-11-06

**29.140.99 Alte standarde referitoare la
lămpi**

EN IEC 62922:2017/prA1:2020

Organic light emitting diode (OLED) panels for general lighting - Performance requirements
dea: 2020-11-20

**29.240 Rețele de transport și distribuție a
energiei electrice**

**29.240.01 Rețele de transport și
distribuție a energiei electrice în
general**

FprEN IEC 61557-12:2018/prA1:2020

Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 12: Power metering and monitoring devices (PMD)
dea: 2020-11-20

**33.100 Compatibilitate electromagnetă
(EMC)**

33.100.10 Emisie

prEN IEC 55025:2020

Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers
dea: 2020-10-30

33.100.20 Imunitate

prEN IEC 55025:2020

Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers
dea: 2020-10-30

33.180 Comunicații prin fibră optică

33.180.10 Fibre optice și cabluri

prEN IEC 60794-3:2020

Optical fibre cables - Part 3: Outdoor cables - Sectional specification
dea: 2020-11-06

**33.180.20 Dispozitive de interconectare
prin fibre optice**

prEN IEC 61755-3-1:2020

Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-1: Connector parameters of dispersion unshifted single-mode physically contacting fibres - non-angled 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules
dea: 2020-11-06

prEN IEC 61755-3-2:2020

Fibre optic interconnecting devices and passive components – Connector optical interfaces - Part 3-2: Connector parameters of dispersion unshifted single-mode physically contacting fibres - angled 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules
dea: 2020-11-06

33.200 Telecomandă. Teleconducere

prEN IEC 61968-3:2020

Application integration at electric utilities - System interfaces for distribution management - Part 3: Interface for network operations
dea: 2020-11-13

43.040 Sisteme pentru vehicule rutiere

**43.040.20 Sisteme de iluminat,
semnalizare și avertizare**

prEN IEC 60809

Lamps and light sources for road vehicles -
Dimensional, electrical and luminous
requirements
dea: 2020-11-06

EN IEC 60350-1:2016/prA1:2020

Household electric cooking appliances - Part 1:
Ranges, ovens, steam ovens and grills - Methods
for measuring performance
dea: 2020-11-13

97.040 Echipament de bucătărie

**97.040.20 Aragaze, aparate de încălzire,
cuptoare și aparate similare**



**PROIECTE DE STANDARDE / DOCUMENTE DE STANDARDIZARE
EUROPENE ETSI SUPUSE ANCHETEI PUBLICE**

În perioada 2021.02.01 – 2021.02.28

Proiectele de standarde de mai jos sunt supuse anchetei publice. Asupra acestor proiecte poate face observații orice persoană fizică sau juridică, la adresa ancheta publica@asro.ro. Proiectele pot fi obținute de la ASRO precizând indicativul și titlul standardului. Termenul limită până la care se pot trimite comentarii este cu 30 zile calendaristice înainte de termenul limită de vot (dea), indicat după fiecare proiect.

EN 302 326-2 V2.1.0

Comitet Tehnic ETSI: ATTM TM4
Fixed Radio Systems; Multipoint Equipment and
Antennas; Part 2: Harmonised Standard for
access to radio spectrum
dea: 2020-11-19

dea: 2020-11-19

EN 303 135 V2.1.2

Comitet Tehnic ETSI: ERM TGMARINE
Coastal Surveillance, Vessel Traffic Services and
Harbour Radars (CS/VTS/HR); Harmonised
Standard for access to radio spectrum
dea: 2020-11-18

EN 302 326-3 V2.1.0

Comitet Tehnic ETSI: ATTM TM4
Fixed Radio Systems; Multipoint Equipment and
Antennas; Part 3: Multipoint Antennas

STANDARDIZAREA INTERNAȚIONALĂ

Informațiile din această secțiune se referă la activitatea din cadrul Organizației Internaționale de Standardizare (ISO) și a Comisiei Electrotehnice Internaționale (IEC).

Pentru înțelegerea simbolurilor utilizate în această secțiune se fac precizările de mai jos:

ISO	standard internațional ISO (de exemplu, ISO 9001)
IEC	standard internațional IEC (de exemplu, IEC 60050)
ISO/TS, IEC/TS	specificație tehnică ISO, IEC
ISO/TR, IEC/TR	raport tehnic ISO, IEC
ISO/PAS, IEC PAS	specificație disponibilă publicului ISO, IEC
IWA	acordul unui workshop ISO, IEC
ISO/DIS	proiect de standarde internațional ISO
dea	termenul limită de vot



STANDARDE / DOCUMENTE DE STANDARDIZARE INTERNAȚIONALE ISO APROBATE

În perioada 2021.02.01 – 2021.02.28

IIW INSTITUTUL INTERNAȚIONAL DE SUDURĂ

ISO 6847:2020

Welding consumables -- Deposition of a weld metal pad for chemical analysis

IULTCS UNIUNEA INTERNAȚIONALĂ A SOCIETĂȚILOR TEHNICIENILOR ȘI CHIMIȘTILOR PIELARI

ISO 13365-2:2020

Leather -- Chemical determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography -- Part 2: Artificial perspiration extraction method

ISO 17234-1:2020

Leather -- Chemical tests for the determination of certain azo colourants in dyed leathers -- Part 1: Determination of certain aromatic amines derived from azo colourants

ISO/IEC JTC 1 TEHNOLOGIA INFORMAȚIEI

ISO/IEC/IEEE 8802-11:2018/Amd 3:2020

Enhancements for very high throughput to support Chinese millimeter wave frequency bands (60 GHz and 45 GHz)

ISO/IEC/IEEE 8802-11:2018/Amd 4:2020

Enhancements for transit links within bridged network

ISO/IEC/IEEE 8802-11:2018/Amd 5:2020

Preassociation discovery

ISO/IEC/IEEE 8802-1AE:2020

Telecommunications and exchange between information technology systems -- Requirements for local and metropolitan area networks -- Part 1AE: Media access control (MAC) security

ISO/IEC/IEEE 8802-1Q:2020

Telecommunications and exchange between information technology systems -- Requirements for local and metropolitan area networks -- Part 1Q: Bridges and bridged networks

ISO/IEC 14443-3:2018/Amd 2:2020

Enhancements for harmonization

ISO/IEC 14443-4:2018/Amd 2:2020

Enhancements for harmonization

ISO/IEC 18033-4:2011/Amd 1:2020

ZUC

ISO/IEC 19757-7:2020

Information technology -- Document Schema Definition Languages (DSDL) -- Part 7: Character Repertoire Description Language (CREPDL)

ISO/IEC 20000-2:2019/Amd 1:2020

ISO/IEC TR 20547-1:2020

Information technology -- Big data reference architecture -- Part 1: Framework and application process

ISO/IEC 21794-1:2020

Information technology -- Plenoptic image coding system (JPEG Pleno) -- Part 1: Framework

ISO/IEC 21836:2020

Information technology -- Data centres -- Server energy effectiveness metric

ISO/IEC 23008-2:2020

Information technology -- High efficiency coding and media delivery in heterogeneous environments -- Part 2: High efficiency video coding

ISO/IEC 30145-3:2020

Information technology -- Smart City ICT reference framework -- Part 3: Smart city engineering framework

ISO/TC 2 ELEMENTE DE ASAMBLARE**ISO 898-3:2018/Amd 1:2020****ISO/TC 5 TEVI DIN METALE FEROASE ȘI RACORDURI METALICE****ISO 10802:2020**

Ductile iron pipelines -- Hydrostatic testing after installation

ISO/TC 8 NAVE ȘI TEHNOLOGIE MARITIMĂ**ISO 11336-2:2020**

Large yachts -- Strength, weathertightness and watertightness of glazed openings -- Part 2: Glazed opening integrated into adjacent structure (elastically bonded to bulkhead or shell) design criteria, structural support, installation and testing

ISO 13713:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Mooring chocks

ISO 13728:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Panama chocks

ISO 13729:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Closed chocks

ISO 13733:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Universal fairleads with upper roller

ISO 13742:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Universal fairleads without upper roller

ISO 13755:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Steel rollers

ISO 13767:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Shipside roller fairleads

ISO 13776:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Pedestal fairleads

ISO 13795:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Welded steel bollards for sea-going vessels

ISO 13797:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Cruciform bollards

ISO 13798:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Recessed bits (steel plate type)

ISO 13799:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Recessed bits (casting type)

ISO 19018:2020

Ships and marine technology -- Terms, abbreviations, graphical symbols and concepts on navigation

ISO 21851:2020

Marine technology -- Ocean observation systems -- Design criteria of ocean hydro-meteorological observation systems reuse and interaction

ISO 23113:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Seats for closed chocks

ISO 23115:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Seats for mooring chocks

ISO 23116:2020

Ships and marine technology -- Ship's mooring and towing fittings -- Seats for Panama chocks

ISO/TC 17 OȚEL**ISO 16573-1:2020**

Steel -- Measurement method for the evaluation of hydrogen embrittlement resistance of high strength steels -- Part 1: Constant load test

ISO/TC 22 VEHICULE RUTIERE**ISO 15007:2020**

Road vehicles -- Measurement and analysis of driver visual behaviour with respect to transport information and control systems

ISO 15500-16:2020

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 16: Rigid fuel line in stainless steel

ISO 15500-18:2020

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 18: Filter

ISO 15500-19:2020

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 19: Fittings

ISO 15500-3:2020

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 3: Check valve

ISO 15500-6:2020

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 6: Automatic valve

ISO 15500-9:2020

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 9: Pressure regulator

ISO 21780:2020

Road vehicles -- Supply voltage of 48 V -- Electrical requirements and tests

ISO/TC 23 TRACTOARE ŞI MATERIALE AGRICOLE ŞI FORESTIERE

ISO 17567:2020

Agricultural and forestry tractors and implements -
- Hydraulic power beyond

ISO 22172-1:2020

Agricultural vehicles -- Standardized access to repair and maintenance information (RMI) -- Part 1: User interface requirements for web-based information systems

ISO 22471:2020

Permissible mechanical connection combinations between towed and towing agricultural vehicles

ISO/TC 27 COMBUSTIBILI MINERALI SOLIZI

ISO 334:2020

Coal and coke -- Determination of total sulfur -- Eschka method

ISO 587:2020

Coal and coke -- Determination of chlorine using Eschka mixture

ISO 17247:2020

Coal and coke -- Ultimate analysis

ISO/TC 30 MĂSURAREA DEBITULUI FLUIDELOR ÎN CONDUCTE ÎNCHISE

ISO 5167-3:2020

Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full -- Part 3: Nozzles and Venturi nozzles

ISO/TC 31 ANVELOPE, JANTE ŞI VALVE

ISO 3877-4:1984/Amd 1:2020

ISO/TC 33 MATERIALE REFRACTARE

ISO 22605:2020

Refractories -- Determination of dynamic Young's modulus (MOE) at elevated temperatures by impulse excitation of vibration

ISO/TC 34 PRODUSE ALIMENTARE

ISO 20980:2020

Artichokes -- Specification and test methods

ISO 20981:2020

Asparagus -- Specification and test methods

ISO/TC 35 VOPSELE ŞI LACURI

ISO 2409:2020

Paints and varnishes -- Cross-cut test

ISO 8502-9:2020

Preparation of steel substrates before application of paints and related products -- Tests for the assessment of surface cleanliness -- Part 9: Field method for the conductometric determination of water-soluble salts

ISO/TS 23973:2020

Liquid chromatography at critical conditions (LCCC) -- Chemical heterogeneity of polyethylene oxides

ISO/TC 38 TEXTILE

ISO 105-X19:2020

Textiles -- Tests for colour fastness -- Part X19: Colour fastness to rubbing (Gakushin test method)

ISO 7211-5:2020

Textiles -- Methods for analysis of woven fabrics construction -- Part 5: Determination of linear density of yarn removed from fabric

ISO 22744-2:2020

Textiles and textile products -- Determination of organotin compounds -- Part 2: Direct method using liquid chromatography

ISO/TC 42 FOTOGRAFIE

ISO 18936:2020

Imaging materials -- Processed colour

photographs -- Methods for measuring thermal stability

ISO/TR 20791-1:2020

Photography -- Photographic reflection prints -- Part 1: Evaluation methods of image quality

ISO/TC 43 ACUSTICĂ

ISO 5135:2020

Acoustics -- Determination of sound power levels of noise from air-terminal devices, air-terminal units, dampers and valves by measurement in a reverberation test room

ISO 10848-5:2020

Acoustics -- Laboratory and field measurement of the flanking transmission for airborne, impact and building service equipment sound between adjoining rooms -- Part 5: Radiation efficiencies of building elements

ISO 11202:2010/Amd 1:2020

ISO/TC 44 SUDARE ȘI PROCEDEE CONEXE

ISO 2560:2020

Welding consumables -- Covered electrodes for manual metal arc welding of non-alloy and fine grain steels -- Classification

ISO 14341:2020

Welding consumables -- Wire electrodes and weld deposits for gas shielded metal arc welding of non alloy and fine grain steels -- Classification

ISO 15792-1:2020

Welding consumables -- Test methods -- Part 1: Preparation of all-weld metal test pieces and specimens in steel, nickel and nickel alloys

ISO 15792-2:2020

Welding consumables -- Test methods -- Part 2: Preparation of single-run and two-run technique test pieces and specimens in steel

ISO/TC 45 ELASTOMERI ȘI PRODUSE PE BAZĂ DE ELASTOMERI

ISO 1409:2020

Plastics/rubber -- Polymer dispersions and rubber latices (natural and synthetic) -- Determination of surface tension

ISO 3303-2:2020

Rubber- or plastics-coated fabrics -- Determination of bursting strength -- Part 2: Hydraulic method

ISO 4097:2020

Rubber, ethylene-propylene-diene (EPDM) -- Evaluation procedure

ISO 4658:2020

Acrylonitrile-butadiene rubber (NBR) -- Evaluation procedure

ISO 4659:2020

Styrene-butadiene rubber (carbon black or carbon black and oil masterbatches) -- Evaluation procedure

ISO 8066-3:2020

Rubber and plastics hoses and hose assemblies for automotive air conditioning -- Specification -- Part 3: Refrigerant 1234yf

ISO 11193-1:2020

Single-use medical examination gloves -- Part 1: Specification for gloves made from rubber latex or rubber solution

ISO 22751:2020

Rubber- or plastic-coated fabrics -- Physical and mechanical test -- Determination of bending force

ISO 22843:2020

Rubber bands -- General requirements and test methods

ISO/TC 46 INFORMARE ȘI DOCUMENTARE

ISO 3166-1:2020

Codes for the representation of names of countries and their subdivisions -- Part 1: Country code

ISO 3166-2:2020

Codes for the representation of names of countries and their subdivisions -- Part 2: Country subdivision code

ISO 3166-3:2020

Codes for the representation of names of countries and their subdivisions -- Part 3: Code for formerly used names of countries

ISO 23404:2020

Information and documentation -- Papers and boards used for conservation -- Measurement of impact of volatiles on cellulose in paper

ISO/TC 58 BUTELII PENTRU GAZ

ISO 13088:2011/Amd 1:2020

ISO/TC 59 CONSTRUCȚII IMOBILIARE

ISO 6707-1:2020

Buildings and civil engineering works -- Vocabulary -- Part 1: General terms

ISO/TR 22845:2020

Resilience of buildings and civil engineering works

ISO/TC 61 MATERIALE PLASTICE

ISO 10352:2020

Fibre-reinforced plastics -- Moulding compounds and prepregs -- Determination of mass per unit area and fibre mass per unit area

ISO 19063-2:2020

Plastics -- Impact-resistant polystyrene (PS-I) moulding and extrusion materials -- Part 2: Preparation of test specimens and determination of properties

ISO 22526-3:2020

Plastics -- Carbon and environmental footprint of biobased plastics -- Part 3: Process carbon footprint, requirements and guidelines for quantification

ISO 23706:2020

Plastics -- Determination of apparent activation energies of property changes in standard weathering test methods

ISO 24022-1:2020

Plastics -- Polystyrene (PS) moulding and extrusion materials -- Part 1: Designation system and basis for specifications

ISO/TC 68 SERVICII FINANCIARE

ISO 17442-1:2020

Financial services -- Legal entity identifier (LEI) -- Part 1: Assignment

ISO 17442-2:2020

Financial services -- Legal entity identifier (LEI) -- Part 2: Application in digital certificates

ISO 23897:2020

Financial services -- Unique transaction identifier (UTI)

ISO/TC 70 MOTOARE CU ARDERE INTERNĂ

ISO 11102-1:2020

Reciprocating internal combustion engines -- Handle starting equipment -- Part 1: Safety requirements and tests

ISO/TC 71 BETON, BETON ARMAT ȘI BETON PRECOMPRIMAT

ISO 22502:2020

Simplified design of connections of concrete claddings to concrete structures

ISO/TC 83 ECHIPAMENTE PENTRU SPORT ȘI RECREERE

ISO 7331:2020

Ski-poles for alpine and touring skiing -- Requirements and test methods

ISO 20957-2:2020

Stationary training equipment -- Part 2: Strength training equipment, additional specific safety requirements and test methods

ISO/TC 92 SECURITATE LA INCENDIU

ISO/TS 17755-2:2020

Fire safety -- Statistical data collection -- Part 2: Vocabulary

ISO/TC 94 SECURITATEA PERSOANEI- ÎMBRĂCĂMINTE ȘI ECHIPAMENTE DE PROTECȚIE

ISO 16073-9:2020

Wildland firefighting personal protective equipment -- Requirements and test methods -- Part 9: Firehoods

ISO/TC 106 STOMATOLOGIE

ISO 3630-5:2020

Dentistry -- Endodontic instruments -- Part 5: Shaping and cleaning instruments

ISO 20127:2020

Dentistry -- Physical properties of powered toothbrushes

ISO/TC 113 HIDROMETRIE

ISO 18320:2020

Hydrometry -- Measurement of liquid flow in open channels -- Determination of the stage-discharge relationship

ISO/TC 114 CEASORNICĂRIE

ISO 14368-4:2020

Mineral and sapphire watch-glasses -- Part 4: Anti-reflective treatment

ISO/TC 121 ECHIPAMENTE PENTRU ANESTEZIE ȘI REANIMARE

ISO 7376:2020

Anaesthetic and respiratory equipment -- Laryngoscopes for tracheal intubation

ISO/TC 127 MAȘINI DE TERASAMENT

ISO 24410:2020

Earth-moving machinery -- Coupling of attachments to skid steer loaders

ISO/TC 130 TEHNOLOGIE GRAFICĂ

ISO/TS 23031:2020

Graphic technology -- Assessment and validation of the performance of spectrophotometers and spectrodensitometers

ISO/TC 138 ȚEVI, FITINGURI ȘI ROBINETE DE MATERIALE PLASTICE PENTRU TRANSPORTUL FLUIDELOR

ISO 8779:2020

Plastics piping systems -- Polyethylene (PE) pipes for irrigation -- Specifications

ISO 16486-1:2020

Plastics piping systems for the supply of gaseous fuels -- Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing -- Part 1: General

ISO/TC 145 SIMBOLURI GRAFICE

ISO/TS 20559:2020

Graphical symbols -- Safety colours and safety signs -- Guidance for the development and use of a safety signing system

ISO/TC 147 CALITATEA APEI

ISO 13166:2020

Water quality -- Uranium isotopes -- Test method using alpha-spectrometry

ISO 22017:2020

Water quality -- Guidance for rapid radioactivity measurements in nuclear or radiological emergency situation

ISO/TC 150 IMPLANTURI CHIRURGICALE

ISO/TS 21560:2020

General requirements of tissue-engineered medical products

ISO/TC 153 ROBINETĂRIE

ISO 10434:2020

Bolted bonnet steel gate valves for the petroleum, petrochemical and allied industries

ISO 15761:2020

Steel gate, globe and check valves for sizes DN 100 and smaller, for the petroleum and natural gas industries

ISO/TC 156 COROZIUNEA METALELOR ȘI ALIAJELOR

ISO 11463:2020

Corrosion of metals and alloys -- Guidelines for the evaluation of pitting corrosion

ISO 22858:2020

Corrosion of metals and alloys -- Electrochemical measurements -- Test method for monitoring atmospheric corrosion

ISO 22910:2020

Corrosion of metals and alloys -- Measurement of the electrochemical critical localized corrosion temperature (E-CLCT) for Ti alloys fabricated via the additive manufacturing method

ISO/TC 159 ERGONOMIE

ISO/TR 9241-514:2020

Ergonomics of human-system interaction -- Part 514: Guidance for the application of anthropometric data in the ISO 9241-500 series

ISO/TC 164 ÎNCERCĂRI MECANICE ALE METALELOR

ISO 10275:2020

Metallic materials -- Sheet and strip -- Determination of tensile strain hardening exponent

ISO/TC 172 OPTICĂ ȘI FOTONICĂ

ISO 10934:2020

Microscopes -- Vocabulary for light microscopy

ISO/TC 190 CALITATEA SOLULUI

ISO 54321:2020

Soil, treated biowaste, sludge and waste -- Digestion of aqua regia soluble fractions of elements

ISO/TC 201 ANALIZE CHIMICE DE SUPRAFAȚĂ

ISO 16413:2020

Evaluation of thickness, density and interface width of thin films by X-ray reflectometry -- Instrumental requirements, alignment and positioning, data collection, data analysis and reporting

ISO/TC 204 SISTEME INTELIGENTE DE TRANSPORT

ISO 15638-9:2020

Intelligent transport systems -- Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) -- Part 9: Remote digital tachograph monitoring

ISO 17515-2:2020

Intelligent transport systems -- Evolved universal terrestrial radio access network (E-UTRAN) -- Part 2: Device to device communications (D2D)

ISO 19299:2020

Electronic fee collection -- Security framework

ISO/TC 206 CERAMICĂ TEHNICĂ

ISO 22278:2020

Fine ceramics (advanced ceramics, advanced technical ceramics) -- Test method for crystalline quality of single-crystal thin film (wafer) using XRD method with parallel X-ray beam

ISO/TC 212 LABORATOARE DE ANALIZE BIOLOGICE MEDICALE ȘI SISTEME DE DIAGNOSTICARE IN VITRO

ISO 21474-1:2020

In vitro diagnostic medical devices -- Multiplex molecular testing for nucleic acids -- Part 1: Terminology and general requirements for nucleic acid quality evaluation

ISO/TC 213 SPECIFICAȚII ȘI VERIFICĂRI DIMENSIONALE ȘI GEOMETRICE ALE PRODUSELOR

ISO/TR 23276:2020

Geometrical product specifications (GPS) -- Surface texture: Profile method -- Flowchart for PSm, RSm, WSm and Pc, Rc, Wc

ISO/TC 215 INFORMATICĂ MEDICALĂ

ISO/IEEE 11073-10101:2020

Health informatics -- Device interoperability -- Part 10101: Point-of-care medical device communication -- Nomenclature

ISO/TC 228 TURISM ȘI SERVICII CONEXE

ISO 21102:2020

Adventure tourism -- Leaders -- Personnel competence

ISO/TC 238 BIOCOMBUSTIBILI SOLIZI

ISO/TR 23437:2020

Solid biofuels -- Bridging behaviour of bulk biofuels

ISO/TC 249 MEDICINĂ TRADIȚIONALĂ CHINEZEASCĂ

ISO 22213:2020

Traditional Chinese medicine -- Glass cupping device

ISO 22283:2020

Traditional Chinese medicine -- Determination of aflatoxins in natural products by LC-FLD

ISO 23193:2020

Traditional Chinese medicine -- Lycium barbarum and Lycium chinense fruit

ISO/TC 256 PIGMENȚI, COLORANȚI ȘI MATERIALE DE UMPLUTURĂ

ISO 18314-4:2020

Analytical colorimetry -- Part 4: Metamerism index for pairs of samples for change of illuminant

ISO/TC 260 MANAGEMENTUL RESURSELOR UMANE

ISO/TS 24179:2020

Human resource management -- Occupational health and safety metrics

ISO/TC 261 FABRICAȚIA ADITIVĂ

ISO/ASTM 52942:2020

Additive manufacturing -- Qualification principles - - Qualifying machine operators of laser metal powder bed fusion machines and equipment used in aerospace applications

ISO/TC 268 DEZVOLTAREA DURABILĂ ÎN COMUNITĂȚI

ISO/TR 37171:2020

Report of pilot testing on the application of ISO smart community infrastructures standards

ISO/TC 269 APLICATII FERROVIARE

ISO 22074-1:2020

Railway infrastructure -- Rail fastening systems -- Part 1: Vocabulary

ISO/TC 281 TEHNOLOGIA BULELOR FINE

ISO/TR 23015:2020

Fine bubble technology -- Measurement technique matrix for the characterization of fine bubbles

ISO/TC 304 ADMINISTRAREA ASISTENȚEI MEDICALE

ISO 22886:2020

Healthcare organization management -- Vocabulary

ISO/PC 318

ISO 31800:2020

Faecal sludge treatment units -- Energy independent, prefabricated, community-scale, resource recovery units -- Safety and performance requirements



**STANDARDE / DOCUMENTE DE STANDARDIZARE
INTERNAȚIONALE IEC APROBATE**

În perioada 2021.02.01 – 2021.02.28

**IEC/TC 3 STRUCTURI DE INFORMARE,
DOCUMENTAȚIE ȘI SIMBOLURI
GRAFICE**

IEC 61293:2019

Marking of electrical equipment with ratings related to electrical supply - Safety requirements

**IEC/TC 9 ECHIPAMENTE ȘI SISTEME
ELECTRICE PENTRU TRACȚIUNE
ELECTRICĂ**

IEC 62290-3:2019

Railway applications - Urban guided transport management and command/control systems - Part 3: System requirements specification

IEC 63076:2019

Railway applications - Rolling stock - Electrical equipment in trolley buses - Safety requirements and current collection systems

**IEC/TC 100 SISTEME ȘI ECHIPAMENTE
AUDIO, VIDEO ȘI MULTIMEDIA**

IEC 62680-1-5:2019

Universal serial bus interfaces for data and power – Part 1-5: Common components – USB Audio 3.0 device class definition

IEC 62680-1-6:2019

Universal serial bus interfaces for data and power – Part 1-6: Common components – USB Audio 3.0 device class definition basic functions

IEC 62680-1-7:2019

Universal serial bus interfaces for data and power – Part 1-7: Common components – USB Audio 3.0 device class definition data formats

IEC 62680-1-8:2019

Universal serial bus interfaces for data and power - Part 1-8: Common components – USB Audio 3.0 device class definition terminal types

**IEC/TC 18 INSTALAȚIILE ELECTRICE ALE
NAVELOR ȘI ALE UNITĂȚILOR
MOBILE ȘI FIXE DE PE MARE**

IEC 60092-201:2019

Electrical installations in ships - Part 201: System design - General

IEC 60092-302-2:2019

Electrical installations in ships - Part 302-2: Low voltage switchgear and controlgear assemblies - Marine power

IEC/TC 20 CABLURI ELECTRICE

IEC 62125:2019

Environmental considerations specific to insulated electrical power and control cables

**IEC/TC 21 ELEMENTE GALVANICE
SECUNDARE ȘI ACUMULATOARE**

IEC 60095-6:2019

Lead-acid starter batteries - Part 6: Batteries for micro-cycle applications

IEC 60095-7:2019

Lead-acid starter batteries - Part 7: General requirements and methods of test for motorcycle batteries

**IEC/TC 22 SISTEME ȘI ECHIPAMENTE
PENTRU ELECTRONICA DE
PUTERE**

IEC TR 63262:2019

Performance of unified power flow controller (UPFC) in electric power systems

IEC/TC 23 ACCESORII ELECTRICE

IEC 61950:2019

Cable management systems - Specifications for extra-heavy-duty electrical steel conduit fittings and accessories

IEC 62962:2019

Particular requirements for load-shedding equipment (LSE)

IEC/TC 29 ELECTROACUSTICĂ

IEC 60118-9:2019

Electroacoustics – Hearing aids – Part 9: Methods of measurement of the performance characteristics of bone conduction hearing aids

IEC/TC 32 SIGURANȚE ELECTRICE

IEC 60644:2009/A1:2019

Amendment 1 - Specification for high-voltage fuse-links for motor circuit applications

IEC 60644:2009+A1:2019 CSV

Specification for high-voltage fuse-links for motor circuit applications

**IEC/TC 40 CONDENSATOARE ȘI
REZISTOARE ELECTRONICE**

IEC 60384-16:2019

Fixed capacitors for use in electronic equipment - Part 16: Sectional specification - Fixed metallized polypropylene film dielectric DC capacitors

IEC/TC 46 CABLURI, CONDUCTOARE, GHIDURI DE UNDĂ, CONECTOARE DE RADIOFRECVENȚĂ, COMPONENTE ȘI ACCESORII PASIVE PENTRU MICROUNDRE ȘI RADIOFRECVENȚĂ

IEC 61169-1-2:2019

Radio-frequency connectors - Part 1-2: Electrical test methods - Insertion loss

IEC 61169-64:2019

Radio frequency connectors - Part 64: Sectional specification - RF coaxial connectors with 0,8 mm inner diameter of outer conductor - Characteristic impedance 50 Ω (type 0,8)

IEC 61935-1:2019

Specification for the testing of balanced and coaxial information technology cabling - Part 1: Installed balanced cabling as specified in ISO/IEC 11801-1 and related standards

IEC 61935-1-1:2019

Specification for the testing of balanced and coaxial information technology cabling - Part 1-1: Additional requirements for the measurement of transverse conversion loss and equal level transverse conversion transfer loss

IEC 63138-1:2019

Multi-channel radio frequency connectors - Part 1: Generic specification - General requirements and test methods

IEC/TC 47 DISPOZITIVE CU SEMICONDUCTOARE

IEC 60747-7:2010/A1:2019

Amendment 1 - Semiconductor devices - Discrete devices - Part 7: Bipolar transistors

IEC 60747-7:2010+A1:2019 CSV

Semiconductor devices - Discrete devices - Part 7: Bipolar transistors

IEC/TC 48 COMPONENTE ELECTROMECHANICE ȘI STRUCTURI MECANICE PENTRU ECHIPAMENTUL ELECTRONIC

IEC 60917-1:2019

Modular order for the development of mechanical structures for electrical and electronic equipment practices - Part 1: Generic standard

IEC 61076-3-123:2019

Connectors for electrical and electronic equipment

- Product requirements - Part 3-123: Rectangular connectors - Detail specification for hybrid connectors for industrial environments, for power supply and fibre optic data transmission, with push-pull locking

IEC/TC 51 COMPONENTE MAGNETICE ȘI FERITE

IEC 62025-2:2019

High frequency inductive components - Non-electrical characteristics and measuring methods - Part 2: Test methods for non-electrical characteristics

IEC/TC 55 CONDUCTOARE DE BOBINAJ

IEC 60851-5:2008/A2:2019

Amendment 2 - Winding wires - Test methods - Part 5: Electrical properties

IEC 60851-5:2008+A1:2011+A2:2019 CSV

Winding wires - Test methods - Part 5: Electrical properties

IEC/TC 59 APTITUDINILE DE FUNCȚIONARE ALE APARATELOR ELECTROCASNICE

IEC 63136:2019

Electric dishwashers for commercial use - Test methods for measuring the performance

IEC/TC 61 SECURITATEA APARATELOR ELECTRICE DE UZ CASNIC

IEC 60335-2-105:2016/A1:2019

Amendment 1 - Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets

IEC 60335-2-105:2016+A1:2019 CSV

Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets

IEC 60335-2-32:2019

Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances

IEC 60335-2-5:2012/ISH1:2019

Interpretation Sheet 1 - Household and similar electrical appliances - Safety - Part 2-5: Particular requirements for dishwashers

IEC 60335-2-89:2019/C1:2019

Corrigendum 1 - Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor

**IEC/TC 62 ECHIPAMENTE
ELECTROMEDICALE**

IEC 61223-3-5:2019

Evaluation and routine testing in medical imaging departments - Part 3-5: Acceptance tests and constancy tests - Imaging performance of computed tomography X-ray equipment

IEC 62985:2019

Methods for calculating size specific dose estimates (SSDE) on computed tomography

**IEC/TC 64 INSTALAȚII ELECTRICE ȘI
PROTECȚIA ÎMPOTRIVA ȘOCULUI**

IEC 60364-7-706:2005/A1:2019

Amendment 1 - Low-voltage electrical installations - Part 7-706: Requirements for special installations or locations - Conducting locations with restricted movement

IEC 60364-7-706:2005+A1:2019 CSV

Low-voltage electrical installations - Part 7-706: Requirements for special installations or locations - Conducting locations with restricted movement

**IEC/TC 65 MĂSURĂ ȘI COMANDĂ ÎN
PROCESELE INDUSTRIALE**

IEC 62657-2:2017/A1:2019

Amendment 1 - Industrial communication networks - Wireless communication networks - Part 2: Coexistence management

IEC 62657-2:2017+A1:2019 CSV

Industrial communication networks - Wireless communication networks - Part 2: Coexistence management

**IEC/TC 72 COMENZI AUTOMATE PENTRU
APARATE DE UZ CASNIC**

IEC 60730-2-6:2015/A1:2019

Amendment 1 - Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

IEC 60730-2-6:2015+A1:2019 CSV

Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

**IEC/TC 82 SISTEME DE CONVERSIE
FOTOVOLTAICĂ A ENERGIEI
SOLARE**

IEC TS 62257-9-6:2019

Renewable energy and hybrid systems for rural electrification - Part 9-6: Integrated systems -

Recommendations for selection of Photovoltaic Individual Electrification Systems (PV-IES)

**IEC/TC 85 ECHIPAMENTE DE MĂSURARE A
MĂRIMILOR ELECTRICE ȘI
ELECTROMAGNETICE
FUNDAMENTALE**

IEC TR 63213:2019

Power measurement applications within electrical distribution networks and electrical installations

IEC/TC 86 FIBRE OPTICE

IEC 61300-3-21:2019

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-21: Examinations and measurements - Switching time

IEC 62343-2-1:2019

Dynamic modules - Part 2-1: Reliability qualification - Test template

IEC/TC 87 ULTRASUNETE

IEC 60565-2:2019

Underwater acoustics - Hydrophones - Calibration of hydrophones - Part 2: Procedures for low frequency pressure calibration

IEC/TC 88 TURBINE EOLIENE

IEC 61400-1:2019/C1:2019

Corrigendum 1 - Wind energy generation systems - Part 1: Design requirements

IEC 61400-12-1:2017/C1:2019

Corrigendum 1 - Wind energy generation systems - Part 12-1: Power performance measurements of electricity producing wind turbines

IEC TR 61400-21-3:2019

Wind energy generation systems - Part 21-3: Measurement and assessment of electrical characteristics - Wind turbine harmonic model and its application

IEC TS 61400-25-71:2019

Wind energy generation systems - Part 25-71: Communications for monitoring and control of wind power plants - Configuration description language

**IEC/TC 91 TEHNOLOGIA ASAMBLĂRII
COMPONENTELOR ELECTRONICE**

IEC 61191-2:2017/C1:2019

Corrigendum 1 - Printed board assemblies - Part 2: Sectional specification - Requirements for surface mount soldered assemblies

IEC 62878-2-5:2019

Device embedding assembly technology - Part 2-5: Guidelines - Implementation of a 3D data format for device embedded substrate

**IEC/TC 100 SISTEME ȘI ECHIPAMENTE
AUDIO, VIDEO ȘI MULTIMEDIA**

IEC 63033-3:2019

Car multimedia systems and equipment - Drive monitoring system - Part 3: Measurement methods

**IEC/TC 106 METODE DE EVALUARE A
CÂMPURILOR ELECTRICE,
MAGNETICE ȘI
ELECTROMAGNETICE ASOCIATE
CU EXPUNEREA CORPULUI UMAN**

IEC 62209-3:2019

Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 3: Vector measurement-based systems (Frequency range of 600 MHz to 6 GHz)

IEC TS 62764-1:2019

Measurement procedures of magnetic field levels generated by electronic and electrical equipment in the automotive environment with respect to human exposure - Part 1: Low frequency magnetic fields

**IEC/TC 107 CONDUCEREA PROCESELOR
PENTRU AERONAVE**

IEC 62668-1:2019

Process management for avionics - Counterfeit prevention - Part 1: Avoiding the use of

counterfeit, fraudulent and recycled electronic components

**IEC/TC 110 DISPOZITIVE DE AFIȘARE
PLANE**

IEC 62908-12-20:2019

Touch and interactive displays - Part 12-20: Measuring methods of touch displays - Multi-touch performance

IEC 63145-20-20:2019

Eyewear display - Part 20-20: Fundamental measurement methods - Image quality

**IEC/TC 112 EVALUAREA ȘI CALIFICAREA
MATERIALELOR IZOLATOARE
ELECTRICE ȘI A SISTEMELOR**

IEC TR 61244-4:2019

Determination of long-term radiation ageing in polymers - Part 4: Effects of different temperatures and dose rates under radiation conditions

**IEC/TC 114 ENERGIE MARINĂ.
CONVERTOARE DE ENRGIE A
VALURILOR ȘI MAREELOR**

IEC TS 62600-300:2019

Marine energy - Wave, tidal and other water current converters - Part 300: Electricity producing river energy converters - Power performance assessment

IEC TS 62600-301:2019

Marine energy - Wave, tidal and other water current converters - Part 301: River energy resource assessment



**PROIECTE DE STANDARDE / DOCUMENTE DE STANDARDIZARE
INTERNAȚIONALE ISO SUPUSE ANCHETEI PUBLICE**

În perioada 2021.02.01 – 2021.02.28

Proiectele de standarde de mai jos sunt supuse anchetei publice. Asupra acestor proiecte poate face observații orice persoană fizică sau juridică, la adresa ancheta publica@asro.ro. Proiectele pot fi obținute de la ASRO precizând indicativul și titlul proiectului. Termenul limită până la care se pot trimite comentarii este cu 30 zile calendaristice înainte de termenul limită de vot (dea), indicat după fiecare proiect.

**ISO/REMCO COMITET MATERIALE DE
REFERINȚĂ**

ISO Guide 30:2015/DAmD 1

Revisions of definitions for reference material and certified reference material
dea: 2019-11-27

**ISO/TMBG CONSILIUL DE MANAGEMENT
TEHNIC**

ISO/DGuide 84

Guidelines for addressing climate change in standards
dea: 2020-01-20

ISO/IEC JTC 1 TEHNOLOGIA INFORMAȚIEI

ISO/IEC 17839-2:2015/DAmD 1

Additional specifications
dea: 2019-11-25

ISO/IEC DIS 19785-1

Information technology -- Common Biometric Exchange Formats Framework -- Part 1: Data element specification
dea: 2019-12-16

ISO/IEC/IEEE DIS 24748-3

Systems and software engineering -- Life cycle management -- Part 3: Guidelines for the application of ISO/IEC/IEEE 12207 (Software life cycle processes)
dea: 2019-12-13

ISO/IEC DIS 29110-4-2

Systems and software engineering -- Lifecycle profiles for Very Small Entities (VSEs) -- Part 4-2: Software engineering -- Profile specifications: Organizational management profile group
dea: 2019-12-06

ISO/IEC DIS 30106-2

Information technology -- Object oriented BioAPI - - Part 2: Java implementation
dea: 2019-12-16

ISO/IEC DIS 30106-3

Information technology -- Object oriented BioAPI - - Part 3: C# implementation
dea: 2019-12-16

ISO/IEC DIS 30112

Information technology -- Specification methods for cultural conventions
dea: 2019-12-13

ISO/IEC DIS 30113-61

Information technology -- User interfaces -- Gesture-based interfaces across devices and methods -- Part 61: Single-point gestures for screen readers
dea: 2019-12-13

ISO/IEC DIS 30145-3

Information technology -- Smart City ICT reference framework -- Part 3: Smart city engineering framework
dea: 2019-12-11

ISO/TC 5 ȚEVI DIN METALE FEROASE ȘI RACORDURI METALICE**ISO/DIS 10802**

Ductile iron pipelines -- Hydrostatic testing after installation
dea: 2019-11-29

ISO/TC 8 NAVE ȘI TEHNOLOGIE MARITIMĂ**ISO/DIS 15370**

Ships and marine technology -- Low-location lighting (LLL) on passenger ships -- Arrangement
dea: 2019-12-12

ISO/DIS 17631

Ships and marine technology -- Shipboard plans for fire control, damage control, life-saving appliances and means of escape
dea: 2019-12-12

ISO/DIS 19018

Ships and marine technology -- Terms, abbreviations, graphical symbols and concepts on navigation
dea: 2019-12-16

ISO/TC 10 DOCUMENTAȚIE TEHNICĂ DE PRODUS**ISO/DIS 22014**

Library objects for architecture, engineering, construction and use
dea: 2019-11-29

ISO/TC 20 AERONAUTICĂ ȘI SPAȚIU**ISO/DIS 8080**

Aerospace -- Anodic treatment of titanium and titanium alloys -- Sulfuric acid process
dea: 2019-12-23

ISO/DIS 16404

Space systems -- Programme management -- Requirements management
dea: 2019-12-11

ISO/DIS 22772

Space systems -- Requirements of launch vehicle (LV) to electrical ground support equipment (EGSE) interfaces
dea: 2019-12-09

ISO/DIS 26871

Space systems -- Explosive systems and devices
dea: 2019-12-11

ISO/TC 22 VEHICULE RUTIERE**ISO/DIS 5011**

Inlet air cleaning equipment for internal combustion engines and compressors -- Performance testing
dea: 2019-12-19

ISO/DIS 13063-1

Electrically propelled mopeds and motorcycles -- Safety specifications -- Part 1: On-board rechargeable energy storage system (RESS)
dea: 2019-12-11

ISO/DIS 13063-2

Electrically propelled mopeds and motorcycles --

Safety specifications -- Part 2: Vehicle operational safety
dea: 2019-12-12

ISO/DIS 13063-3

Electrically propelled mopeds and motorcycles -- Safety specifications -- Part 3: Electrical safety
dea: 2019-12-12

ISO/DIS 13216-4

Road vehicles -- Anchorages in vehicles and attachments to anchorages for child restraint systems -- Part 4: Lower tether anchorages
dea: 2019-12-12

ISO/DIS 15500-14

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 14: Excess flow valve
dea: 2019-12-11

ISO/DIS 15500-16

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 16: Rigid fuel line in stainless steel
dea: 2019-12-11

ISO/DIS 15500-18

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 18: Filter
dea: 2019-12-11

ISO/DIS 15500-19

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 19: Fittings
dea: 2019-12-11

ISO/DIS 15500-3

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 3: Check valve
dea: 2019-12-11

ISO/DIS 15500-4

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 4: Manual valve
dea: 2019-12-11

ISO/DIS 15500-5

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 5: Manual cylinder valve
dea: 2019-12-11

ISO/DIS 15500-6

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 6: Automatic valve
dea: 2019-12-11

ISO/DIS 15500-9

Road vehicles -- Compressed natural gas (CNG) fuel system components -- Part 9: Pressure regulator
dea: 2019-12-11

ISO 17479:2013/DAmD 1

dea: 2019-12-11

ISO/DIS 19206-4

Road vehicles -- Test devices for target vehicles, vulnerable road users and other objects, for assessment of active safety functions -- Part 4: Requirements for bicyclist targets
dea: 2019-12-11

ISO/DIS 21612

Road vehicles -- Crosstalk determination for multi-axis load cell
dea: 2019-12-12

ISO/DIS 23132

Road vehicles -- Extended Vehicle (ExVe) time critical applications -- General requirements, definitions and classification methodology of time-constrained situations related to Road and ExVe Safety (RExVeS)
dea: 2019-12-02

ISO/TC 23 TRACTOARE ȘI MATERIALE AGRICOLE ȘI FORESTIERE

ISO/DIS 11681-1

Machinery for forestry -- Portable chain-saw safety requirements and testing -- Part 1: Chain-saws for forest service
dea: 2019-12-04

ISO/DIS 11681-2

Machinery for forestry -- Portable chain-saw safety requirements and testing -- Part 2: Chain-saws for tree service
dea: 2019-12-04

ISO/DIS 12140-1

Agricultural machinery -- Agricultural trailers and trailed equipment -- Drawbar jacks -- Part 1: Design safety, test methods and acceptance criteria
dea: 2019-12-18

ISO/DIS 12140-2

Agricultural machinery -- Agricultural trailers and trailed equipment -- Drawbar jacks -- Part 2: Application safety, test methods and acceptance criteria
dea: 2019-12-18

ISO/DIS 22172-1

Tractors and agricultural machinery -- Standardized access to repair and maintenance information (RMI) -- Part 1: User interface requirements for web-based information systems
dea: 2019-11-25

ISO/TC 28 PRODUSE PETROLIERE ȘI LUBRIFIANȚI

ISO 2176:1995/DAmD 1

dea: 2019-12-11

ISO/DIS 5165

Petroleum products -- Determination of the ignition quality of diesel fuels -- Cetane engine method

dea: 2019-12-05

ISO 12925-1:2018/DAmD 1

dea: 2019-11-25

ISO/TC 31 ANVELOPE, JANTE ȘI VALVE**ISO/DIS 3739-1**

Industrial tyres and rims -- Part 1: Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims -- Designation, dimensions and marking

dea: 2019-12-23

ISO/DIS 23671

Passenger car tyres -- Method for measuring relative wet grip performance -- Loaded new tyres

dea: 2019-12-11

ISO/TC 33 MATERIALE REFRACTARE**ISO/DIS 22605**

Refractories -- Determination of dynamic Young's modulus(MOE) at elevated temperatures by impulse excitation of vibration

dea: 2019-12-16

ISO/TC 34 PRODUSE ALIMENTARE**ISO/DIS 939**

Spices and condiments -- Determination of moisture content

dea: 2019-12-16

ISO/DIS 7540Spices -- Ground sweet and hot paprika (*Capsicum annuum* L. and *Capsicum frutescens* L.) -- Specifications

dea: 2019-12-12

ISO/DIS 7541

Spices and condiments -- Spectrophotometric determination of the extractable colour in paprika

dea: 2019-12-11

ISO/TC 35 VOPSELE ȘI LACURI**ISO/DIS 1524**

Paints, varnishes and printing inks -- Determination of fineness of grind

dea: 2019-11-27

ISO/DIS 2409

Paints and varnishes -- Cross-cut test

dea: 2019-11-28

ISO/DIS 4625-1

Binders for paints and varnishes -- Determination of softening point -- Part 1: Ring-and-ball method

dea: 2019-12-16

ISO/DIS 8502-15

Preparation of steel substrates before application of paints and related products -- Tests for the assessment of surface cleanliness -- Part 15:

Extraction of soluble contaminants for analysis by acid extraction

dea: 2019-12-03

ISO/DIS 11127-1

Preparation of steel substrates before application of paints and related products -- Test methods for non-metallic blast-cleaning abrasives -- Part 1: Sampling

dea: 2019-12-03

ISO/DIS 11127-2

Preparation of steel substrates before application of paints and related products -- Test methods for non-metallic blast-cleaning abrasives -- Part 2: Determination of particle size distribution

dea: 2019-12-03

ISO/DIS 11127-3

Preparation of steel substrates before application of paints and related products -- Test methods for non-metallic blast-cleaning abrasives -- Part 3: Determination of apparent density

dea: 2019-12-03

ISO/DIS 11127-4

Preparation of steel substrates before application of paints and related products -- Test methods for non-metallic blast-cleaning abrasives -- Part 4:

Assessment of hardness by a glass slide test

dea: 2019-12-03

ISO/DIS 11127-5

Preparation of steel substrates before application of paints and related products -- Test methods for non-metallic blast-cleaning abrasives -- Part 5:

Determination of moisture

dea: 2019-12-03

ISO/DIS 15528

Paints, varnishes and raw materials for paints and varnishes -- Sampling

dea: 2019-12-02

ISO/DIS 16474-3

Paints and varnishes -- Methods of exposure to laboratory light sources -- Part 3: Fluorescent UV lamps

dea: 2019-12-19

ISO/DIS 20566

Paints and varnishes -- Determination of the scratch resistance of a coating system using a

laboratory-scale car-wash
dea: 2019-11-28

ISO/TC 38 TEXTILE

ISO/DIS 1833-1

Textiles -- Quantitative chemical analysis -- Part 1:
General principles of testing
dea: 2019-11-27

ISO/DIS 1833-2

Textiles -- Quantitative chemical analysis -- Part 2:
Ternary fibre mixtures
dea: 2019-11-27

ISO/DIS 1833-29

Textiles -- Quantitative chemical analysis -- Part
29: Mixtures of polyamide with
polypropylene/polyamide bicomponent (method
using sulfuric acid)
dea: 2019-12-09

ISO/TC 39 MAȘINI-UNELTE

ISO/DIS 19085-1

Woodworking machines -- Safety -- Part 1:
Common requirements
dea: 2019-12-03

ISO/DIS 19085-17

Woodworking machines -- Safety -- Part 17: Edge
banding machines fed by chains
dea: 2019-12-03

ISO/DIS 28881

Machine tools -- Safety -- Electrical discharge
machines
dea: 2019-12-13

ISO/TC 44 SUDARE ȘI PROCEDEE CONEXE

ISO/DIS 18496

Brazing -- Fluxes for brazing -- Classification and
technical delivery conditions
dea: 2019-12-16

ISO/TC 46 INFORMARE ȘI DOCUMENTARE

ISO/DIS 30300

Information and documentation -- Records
management -- Core concepts and vocabulary
dea: 2019-12-11

ISO/TC 59 CONSTRUCȚII IMOBILIARE

ISO/DIS 6707-1

Buildings and civil engineering works --
Vocabulary -- Part 1: General terms
dea: 2019-12-03

ISO/DIS 19650-3

Organization and digitization of information about
buildings and civil engineering works, including

building information modelling (BIM) -- Information
management using building information modelling
-- Part 3: Operational phase of assets
dea: 2019-12-12

ISO/DIS 23658

Buildings and civil engineering works -- Sealants -
- Testing of adhesion properties using a bead peel
test
dea: 2019-12-18

ISO/TC 67 MATERIALE, ECHIPAMENT ȘI STRUCTURI MARINE PENTRU INDUSTRIILE PETROLULUI ȘI GAZELOR NATURALE

ISO 11961:2018/DAMd 1

dea: 2019-11-26

ISO/TC 85 ENERGIE NUCLEARĂ

ISO/DIS 20043-1

Measurement of radioactivity in the environment --
Guidelines for environmental monitoring for
effective dose assessment process -- Part 1:
Planned and existing exposure situation
dea: 2019-12-11

ISO/TC 94 SECURITATEA PERSOANEI- ÎMBRĂCĂMINTE ȘI ECHIPAMENTE DE PROTECȚIE

ISO/DIS 12609-1

Eye and face protection against intense light
sources used on humans and animals for
cosmetic and medical applications -- Part 1:
Specification for products
dea: 2019-12-18

ISO/DIS 16073-6

Wildland firefighting personal protective
equipment -- Requirements and test methods --
Part 6: Footwear
dea: 2019-12-10

ISO/DIS 17420-1

Respiratory protective devices -- Performance
requirements -- Part 1: General
dea: 2019-11-27

ISO/DIS 17420-2

Respiratory protective devices -- Performance
requirements -- Part 2: Requirements for filtering
RPD
dea: 2019-11-27

ISO/DIS 17420-4

Respiratory protective devices -- Performance
requirements -- Part 4: Requirements for supplied
breathable gas RPD
dea: 2019-11-27

ISO/TC 96 MAȘINI DE RIDICAT

ISO/DIS 9942-3.2

Cranes -- Information labels -- Part 3: Tower cranes
dea: 2019-11-22

ISO/TC 107 ACOPERIRI METALICE ȘI ALTE ACOPERIRI ANORGANICE

ISO/DIS 22680

Metallic and other inorganic coatings -- Measurement of linear thermal expansion coefficient of thermal barrier coatings
dea: 2019-11-26

ISO/TC 114 CEASORNICĂRIE

ISO/DIS 14368-4

Mineral and sapphire watch-glasses -- Part 4: Anti-reflective treatment
dea: 2019-12-03

ISO/TC 121 ECHIPAMENTE PENTRU ANESTEZIE ȘI REANIMARE

ISO/DIS 80601-2-13

Medical electrical equipment -- Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation
dea: 2019-11-26

ISO/DIS 80601-2-70

Medical electrical equipment -- Part 2-70: Particular requirements for basic safety and essential performance of sleep apnoea breathing therapy equipment
dea: 2019-12-20

ISO/TC 122 AMBALAJE

ISO/DIS 22982-1

Transport packaging -- Temperature-controlled transport packages for parcel shipping -- Part 1: General requirements
dea: 2019-12-03

ISO/TC 123 LAGĂRE

ISO/DIS 7902-1

Hydrodynamic plain journal bearings under steady-state conditions -- Circular cylindrical bearings -- Part 1: Calculation procedure
dea: 2019-12-11

ISO/TC 126 TUTUN ȘI PRODUSE DIN TUTUN

ISO/DIS 23904

Cigarettes -- Determination of selected phenolic compounds in cigarette mainstream smoke with an intense smoking regime using HPLC-FLD
dea: 2019-12-12

ISO/DIS 23905

Cigarettes -- Determination of selected phenolic compounds in cigarette mainstream smoke using HPLC-FLD
dea: 2019-12-11

ISO/DIS 23919

Cigarettes -- Determination of ammonia in cigarette mainstream smoke using ion chromatography
dea: 2019-12-11

ISO/DIS 23920

Cigarettes -- Determination of ammonia in cigarette mainstream smoke with an intense smoking regime using ion chromatography
dea: 2019-12-11

ISO/TC 127 MAȘINI DE TERASAMENT

ISO/DIS 19014-2

Earth-moving machinery -- Functional safety -- Part 2: Design and evaluation of hardware and architecture requirements for safety-related parts of the control system
dea: 2019-12-12

ISO/TC 147 CALITATEA APEI

ISO/DIS 22515

Water quality -- Iron-55 -- Test method using liquid scintillation counting
dea: 2019-12-12

ISO/TC 154 PROCESE, ELEMENTE INFORMATICE ȘI DOCUMENTE ÎN COMERȚ, INDUSTRIE ȘI ADMINISTRATIE

ISO/DIS 23354

Business requirements for end-to-end visibility of logistics flow
dea: 2019-11-27

ISO/TC 156 COROZIUNEA METALELOR ȘI ALIAJELOR

ISO/DIS 22410

Corrosion of metals and alloys -- Electrochemical measurement of ion transfer resistance to characterize the protective rust layer on weathering steel
dea: 2019-12-12

ISO/DIS 22858

Corrosion of metals and alloys -- Electrochemical measurements -- Test method for monitoring atmospheric corrosion
dea: 2019-12-11

ISO/TC 159 ERGONOMIE

ISO/DIS 11228-1

Ergonomics -- Manual handling -- Part 1: Lifting, lowering and carrying
dea: 2019-12-11

**ISO/TC 163 PERFORMANȚA TERMICĂ ȘI
UTILIZAREA ENERGIEI TERMICE
ÎN CLĂDIRI**

ISO/DIS 22482

Thermal insulation products -- Aerogel blanket for buildings -- Determination of physical properties
dea: 2019-12-10

ISO/TC 172 OPTICĂ ȘI FOTONICĂ

ISO/DIS 19980

Ophthalmic instruments -- Corneal topographers
dea: 2019-12-12

ISO/DIS 19986

Lasers and laser-related equipment -- Test method for angle resolved scattering
dea: 2019-12-17

ISO/TC 190 CALITATEA SOLULUI

ISO/DIS 11063

Soil quality -- Direct extraction of soil DNA (revision of ISO 11063:2012)
dea: 2019-11-26

ISO/TC 202 ANALIZE MICROBIENE

ISO/DIS 13067

Microbeam analysis -- Electron backscatter diffraction -- Measurement of average grain size
dea: 2019-12-20

**ISO/TC 204 SISTEME INTELIGENTE DE
TRANSPORT**

ISO/DIS 19299

Electronic fee collection -- Security framework
dea: 2019-12-11

ISO/TC 206 CERAMICĂ TEHNICĂ

ISO/DIS 22459

Fine ceramics (advanced ceramics, advanced technical ceramics) -- Reinforcement of Ceramic composites -- Determination of distribution of tensile strength and of tensile strain to failure of filaments within a multifilament tow at ambient temperature
dea: 2019-11-27

ISO/DIS 23458

Fine ceramics (advanced ceramics, advanced technical ceramics) -- Test method for determining thermal expansion coefficient and residual stress of CVD ceramic coatings
dea: 2019-12-11

ISO/TC 207 MANAGEMENTUL MEDIULUI

ISO 14040:2006/DAmD 1

dea: 2019-12-12

ISO 14044:2006/DAmD 2

dea: 2019-12-12

ISO/DIS 14050

Environmental management -- Vocabulary
dea: 2019-12-18

ISO/TC 211 INFORMAȚII GEOGRAFICE

ISO/DIS 19165-2

Geographic information -- Preservation of digital data and metadata -- Part 2: Content specifications for Earth observation data and derived digital products
dea: 2019-11-26

ISO/TC 216 ÎNCĂLȚĂMINTE

ISO/DIS 16181-1

Footwear -- Critical substances potentially present in footwear and footwear components -- Part 1: Determination of phthalate with solvent extraction
dea: 2019-12-12

ISO/DIS 16181-2

Footwear -- Critical substances potentially present in footwear and footwear components -- Part 2: Determination of phthalate without solvent extraction
dea: 2019-12-11

ISO/TC 218 LEMN

ISO/DIS 17300-1.2

Wood residue and post-consumer wood -- Classification -- Part 1: Vocabulary
dea: 2019-11-08

**ISO/TC 219 ÎNVELITORI PENTRU
PARDOSELI**

ISO/DIS 1763

Textile floor coverings -- Determination of number of tufts and/or loops per unit length and per unit area
dea: 2019-12-02

ISO/DIS 8543

Textile floor coverings -- Methods for determination of mass
dea: 2019-12-11

ISO/TC 220 RECIPIENTE CRIOGENICE

ISO 23208:2017/DAmD 1

dea: 2019-11-29

**ISO/TC 249 MEDICINĂ TRADIȚIONALĂ
CHINEZEASCĂ**

ISO/DIS 21292

Traditional Chinese medicine -- Electric heating moxibustion equipment
dea: 2019-12-13

ISO/DIS 22213

Traditional Chinese medicine -- Traditional glass cupping device
dea: 2019-12-16

ISO/DIS 22236

Traditional Chinese medicine —Thread embedding acupuncture needle for single use
dea: 2019-11-29

ISO/DIS 23191

Traditional Chinese medicine -- Determination of selected Aconitum alkaloids by HPLC
dea: 2019-12-12

ISO/TC 261 FABRICAȚIA ADITIVĂ

ISO/ASTM DIS 52921

Additive manufacturing -- General principles -- Standard practice for part positioning, coordinates and orientation
dea: 2019-12-20

ISO/ASTM DIS 52950

Additive manufacturing -- General principles -- Overview of data processing
dea: 2019-11-28

ISO/TC 276 BIOTEHNOLOGIE

ISO/DIS 21709

Biotechnology -- Biobanking -- Process and quality requirements for establishment, maintenance and characterization of mammalian cell lines
dea: 2019-12-02

ISO/DIS 21710

Biotechnology -- Specification on data management and publication in microbial resource centers
dea: 2019-11-27

ISO/DIS 21973

Biotechnology -- General requirements for transportation of cells for therapeutic use
dea: 2019-11-26

**ISO/TC 282 RECICLAREA APEI
ISO/DIS 16075-1**

Guidelines for treated wastewater use for irrigation projects -- Part 1: The basis of a reuse project for irrigation
dea: 2019-11-25

ISO/DIS 16075-2

Guidelines for treated wastewater use for irrigation projects -- Part 2: Development of the project
dea: 2019-11-27

ISO/DIS 23044

Guidelines for softening and desalination of industrial wastewater for reuse
dea: 2019-12-16

ISO/DIS 23056

Water reuse in urban areas -- Guidelines for decentralized/onsite water reuse system -- Design principle of a decentralized/onsite system
dea: 2019-11-28

ISO/DIS 23070

Water reuse in urban areas -- Guidelines for reclaimed water treatment -- Design principle of a RO desalination system of municipal wastewater
dea: 2019-11-27

ISO/TC 292 SECURITATE

ISO/DIS 22383

Security and resilience -- Authenticity, integrity and trust for products and documents -- Guidelines and performance criteria for authentication solutions for material goods
dea: 2019-11-26

ISO/DIS 22384

Security and resilience -- Authenticity, integrity and trust for products and documents -- Guidelines to establish and monitor a protection plan and its implementation
dea: 2019-11-26

**ISO/TC 300 COMBUSTIBILI SOLIZI
RECUPERAȚI**

ISO/DIS 21637

Solid recovered fuels -- Terminology, definitions and descriptions
dea: 2019-11-25



În perioada 2021.02.01 – 2021.02.28

Proiectele de standarde de mai jos sunt supuse anchetei publice. Asupra acestor proiecte poate face observații orice persoană fizică sau juridică, la adresa ancheta.publica@asro.ro. Proiectele pot fi obținute de la ASRO precizând indicativul și titlul proiectului. Termenul limită până la care se pot trimite comentarii este cu 30 zile calendaristice înainte de termenul limită de vot (dea), indicat după fiecare proiect.

**IEC/CISPR COMITET INTERNAȚIONAL
 SPECIALIZAT ÎN INTERFERENȚA
 RADIO**

IEC 61000-6-3 ED3

Electromagnetic compatibility (EMC) – Part 6-3:
 Generic standards – Emission standard for
 equipment in residential environments
 dea: 2019-11-29

IEC 61000-6-8 ED1

Electromagnetic compatibility (EMC) – Part 6-8:
 Generic standards – Emission standard for
 professional equipment in commercial and light-
 industrial locations
 dea: 2019-11-29

IEC/TC 1 TERMINOLOGIE

IEC 60050-195 ED2

International Electrotechnical Vocabulary (IEV) -
 Part 195: Earthing and protection against electric
 shock
 dea: 2019-11-29

**IEC/TC 9 ECHIPAMENTE ȘI SISTEME
 ELECTRICE PENTRU TRACȚIUNE
 ELECTRICĂ**

IEC 61992-6/AMD2 ED1

Amendment 2 - Railway applications - Fixed
 installations - DC switchgear - Part 6: DC
 switchgear assemblies
 dea: 2019-12-20

**IEC/TC 10 FLUIDE PENTRU APLICAȚII
 ELECTROTEHNICE**

IEC 62975 ED1

Natural esters - Guidelines for maintenance and
 use in electrical equipment
 dea: 2019-12-20

IEC/TC 14 TRANSFORMATOARE DE PUTERE

IEC 60076-22-5 ED1

Power transformers - Part 22-5: Power
 transformer and reactor fittings - Pumps
 dea: 2019-12-20

IEC 60076-22-6 ED1

Power transformers – Part 22-6: Power

transformer and reactor fittings – Fans
 dea: 2019-12-20

**IEC/TC 23 ACCESORII ELECTRICE
 IEC 61534-1/AMD2 ED2**

Powertrack systems - Part 1: General
 requirements
 dea: 2019-12-20

IEC/TC 29 ELECTROACUSTICĂ

IEC 60645-3 ED3

Electroacoustics - Audiometric equipment - Part 3:
 Test signals of short duration
 dea: 2019-12-13

**IEC/TC 47 DISPOZITIVE CU
 SEMICONDUCTOARE**

IEC 60747-14-11 ED1

Semiconductor devices - Part 14-11:
 Semiconductor sensors - Test method of surface
 acoustic wave based integrated sensor for
 measuring ultra violet, illumination and
 temperature
 dea: 2019-12-20

IEC 60747-16-5/AMD1 ED1

Semiconductor devices - Part 16-5: Microwave
 integrated circuits - Oscillators
 dea: 2019-12-06

IEC 63068-3 ED1

Semiconductor devices – Non-destructive
 recognition criteria of defects in silicon carbide
 homoepitaxial wafer for power devices - Part 3:
 Test method for defects using photoluminescence
 dea: 2019-12-20

**IEC/TC 48 COMPONENTE
 ELECTROMECHANICE ȘI
 STRUCTURI MECANICE PENTRU
 ECHIPAMENTUL ELECTRONIC**

IEC 60352-5 ED5

Solderless connections - Part 5: Press-in
 connections - General requirements, test methods
 and practical guidance
 dea: 2019-12-06

**IEC/TC 51 COMPONENTE MAGNETICE ȘI
 FERITE**

IEC 63093-1 ED1

Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 1: General specification
dea: 2019-12-20

IEC 63093-9 ED1

Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 9: Planar cores
dea: 2019-12-20

**IEC/TC 57 CONDUCEREA SISTEMELOR
ELECTRICE DE PUTERE ȘI
SCHIMBUL DE INFORMAȚII
ASOCIAT**

IEC 61968-13 ED2

Application integration at electric utilities - System interfaces for distribution management - Part 13: Common distribution power system model profiles
dea: 2019-11-22

**IEC/TC 61 SECURITATEA APARATELOR
ELECTRICE DE UZ CASNIC**

IEC 60335-2-24 ED8

Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers
dea: 2019-12-20

**IEC/TC 62 ECHIPAMENTE
ELECTROMEDICALE**

ISO 80601-2-13 ED2

Medical electrical equipment - Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation
dea: 2019-11-29

**IEC/TC 64 INSTALAȚII ELECTRICE ȘI
PROTECȚIA ÎMPOTRIVA ȘOCULUI**

IEC 60364-5-53/AMD1 ED4

Amendment 1: Low-Voltage electrical installations - Part 5-53: Selection and erection of electrical equipments - Isolation, switching and control Clause 531
dea: 2019-12-06

IEC 60364-5-53/AMD1 ED4

Amendment 1: Low-Voltage electrical installations - Part 5-53: Selection and erection of electrical equipments - Isolation, switching and control Clause 531
dea: 2019-12-06

**IEC/TC 77 COMPATIBILITATE
ELECTROMAGNETICĂ**

IEC 61000-4-20 ED3

Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides
dea: 2019-11-29

IEC 61000-4-20 ED3

Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides
dea: 2019-11-29

**IEC/TC 81 PROTECȚIA ÎMPOTRIVA
TRĂSNETULUI**

IEC 62793 ED2

Protection against lightning - Thunderstorm warning systems
dea: 2019-12-13

**IEC/TC 82 SISTEME DE CONVERSIE
FOTOVOLTAICĂ A ENERGIEI
SOLARE**

IEC 60904-1 ED3

Photovoltaic devices - Part 1: Measurement of photovoltaic current-voltage characteristics
dea: 2019-12-20

IEC 62788-1-4/AMD1 ED1

Amendment 1 - Measurement procedures for materials used in photovoltaic modules - Part 1-4: Encapsulants - Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off wavelength
dea: 2019-12-06

**IEC/TC 91 TEHNOLOGIA ASAMBLĂRII
COMPONENTELOR ELECTRONICE**

IEC 61189-5-601 ED1

Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 5-601: General test methods for materials and assemblies - Reflow soldering ability test for solder joint, and reflow heat resistance test for printed boards
dea: 2019-12-06

IEC 61760-1 ED3

Surface mounting technology - Part 1: Standard method for the specification of surface mounting components (SMDs)
dea: 2019-12-06

IEC 61760-1 ED3

Surface mounting technology - Part 1: Standard method for the specification of surface mounting components (SMDs)
dea: 2019-12-06

IEC/TC 124

IEC 63203-101-1 ED1

Wearable electronic devices and technologies –
Part 101-1: Terminology
dea: 2019-12-06

IEC 63203-401-1 ED1

Wearable electronic devices and technologies -
Part 401-1: Devices and Systems – Functional
elements - Evaluation method of the stretchable

resistive strain sensor
dea: 2019-12-06

IEC 63203-402-1 ED1

Wearable electronic devices and technologies –
Part 402-1: Devices and Systems – Accessory –
Test methods of glove-type motion sensors for
measuring finger movements
dea: 2019-11-29