

Hrvatski zavod za norme

Oglasnik za normativne dokumente

4/2019 travanj, 2019.

Oglasnik za normativne dokumente Hrvatskog zavoda za norme sadrži popise hrvatskih norma, nacrtu hrvatskih norma, prijedloga za prihvaćanje stranih norma u izvorniku, povučene hrvatske norme, povučene nacрте hrvatskih norma te ispravke, rezultate europske i međunarodne normizacije razvrstane po predmetnom ustroju i obavijesti HZN-a.

Tko u popisima normativnih dokumenata koji su objavljeni u ovom Oglasniku otkrije koju grešku, koja može voditi do krive primjene, moli se da o tome neodložno obavijesti Hrvatski zavod za norme, kako bi se mogli otkloniti uočeni propusti.

Izdavač:



HZN

Hrvatski zavod za norme
Croatian Standards Institute

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1 Rezultati hrvatske normizacije

1.1 Hrvatske norme

Temeljem Zakona o normizaciji (Narodne novine 80/2013) hrvatske norme priprema, izdaje i objavljuje Hrvatski zavod za norme, na prijedlog tehničkih odbora.

Hrvatske norme mogu nastati na ova četiri načina:

- prihvaćanjem stranih (međunarodnih/europskih/nacionalnih) norma uz prevođenje na hrvatski jezik (pp)
- prihvaćanjem stranih norma u izvorniku s hrvatskim ovitkom (po)
- prihvaćanjem stranih norma u izvorniku objavom obavijesti o prihvaćanju (pr)
- izradbom izvorne hrvatske norme (izv).

Oznaka načina prihvaćanja navedena je uz referencijsku oznaku hrvatske norme. Hrvatske su norme zainteresiranima na raspolaganju u Normoteci Hrvatskoga zavoda za norme, Ulica grada Vukovara 78, Zagreb.

HZN/TO 8, Brodogradnja

HRN EN ISO 10087:2019 en pr
Mala plovila – Prepoznavanje trupa – Sustav kodiranja (ISO 10087:2019; EN ISO 10087:2019)
Small craft – Craft identification – Coding system (ISO 10087:2019; EN ISO 10087:2019)

HRN EN 14504:2019 en pr
Plovni objekti unutarnje plovidbe – Plutajuća pristaništa i plutajući mostovi na unutarnjim vodama – Zahtjevi, ispitivanja (EN 14504:2019)
Inland navigation vessels – Floating landing stages and floating bridges on inland waters – Requirements, tests (EN 14504:2019)

HZN/TO 21, Protupožarna i vatrogasna oprema

HRN EN 15004-1:2019 en pr
Stabilni protupožarni sustavi – Sustavi za gašenje plinom – 1. dio: Projektiranje, ugradnja i održavanje (ISO 14520-1:2015, MOD; EN 15004-1:2019)
Fixed firefighting systems – Gas extinguishing systems – Part 1: Design, installation and maintenance (ISO 14520-1:2015, MOD; EN 15004-1:2019)

HRN EN 15276-1:2019 en pr
Stabilni protupožarni sustavi – Sustavi za gašenje kondenziranim aerosolom – 1. dio: Zahtjevi i metode ispitivanja dijelova (EN 15276-1:2019)
Fixed firefighting systems – Condensed aerosol extinguishing systems – Part 1: Requirements and test methods for components (EN 15276-1:2019)

HRN EN 15276-2:2019 en pr
Stabilni protupožarni sustavi – Sustavi za gašenje kondenziranim aerosolom – 2. dio: Projektiranje, ugradnja i održavanje (EN 15276-2:2019)
Fixed firefighting systems – Condensed aerosol extinguishing systems – Part 2: Design, installation and maintenance (EN 15276-2:2019)

HZN/TO 22, Cestovna vozila

HRN EN 17186:2019 en pr
Identifikacija kompatibilnosti vozila i infrastrukture – Grafičko označavanje priključka za punjenje električnog vozila (EV) kao informacija korisniku (EN 17186:2019)
Identification of vehicles and infrastructures compatibility – Graphical expression for consumer information on EV power supply (EN 17186:2019)

HZN/TO 25, Ljevarstvo

HRN EN 1562:2019 en pr
Ljevarstvo – Temporni lijevovi (EN 1562:2019)
Founding – Malleable cast irons (EN 1562:2019)

HRN EN 10283:2019 en pr
Čelični odljevci otporni na koroziju (EN 10283:2019)
Corrosion resistant steel castings (EN 10283:2019)

HRN EN ISO 13520:2019 en pr
Određivanje sadržaja ferita u odljevcima austenitnih nehrđajućih čelika (ISO 13520:2015; EN ISO 13520:2019)
Determination of ferrite content in austenitic stainless steel castings (ISO 13520:2015; EN ISO 13520:2019)

HZN/TO 43, Akustika

HRN EN ISO 3740:2019 en pr
Akustika – Određivanje razina zvučne snage izvora buke – Smjernice za uporabu osnovnih norma (ISO 3740:2019; EN ISO 3740:2019)
Acoustics – Determination of sound power levels of noise sources – Guidelines for the use of basic standards (ISO 3740:2019; EN ISO 3740:2019)

HZN/TO 44, Zavarivanje i srodni postupci

HRN EN ISO 2063-1:2019 en pr
Toplinsko naštrecavanje – Cink, aluminij i njihove legure – 1. dio: Pitanja oblikovanja i zahtjevi za kvalitetu sustava zaštite od korozije (ISO 2063-1:2019; EN ISO 2063-1:2019)
Thermal spraying – Zinc, aluminium and their alloys – Part 1: Design considerations and quality requirements for corrosion protection systems (ISO 2063-1:2019; EN ISO 2063-1:2019)

HRN EN ISO 14731:2019 en pr
Koordinacija zavarivanja – Zadaci i odgovornosti (ISO 14731:2019; EN ISO 14731:2019)
Welding coordination – Tasks and responsibilities (ISO 14731:2019; EN ISO 14731:2019)

HRN EN ISO 17677-1:2019 en,fr,de pr
Elektrootporno zavarivanje – Terminološki rječnik – 1. dio: Točkasto, bradavičasto i šavno zavarivanje (ISO 17677-1:2019; EN ISO 17677-1:2019)
Resistance welding – Vocabulary – Part 1: Spot, projection and seam welding (ISO 17677-1:2019; EN ISO 17677-1:2019)

HZN/TO 135, Nerazorna ispitivanja

HRN EN ISO 15708-4:2019 en pr
Nerazorno ispitivanje – Metode zračenja za računalnu tomografiju – 4. dio: Kvalifikacija (ISO 15708-4:2017; EN ISO 15708-4:2019)
Non-destructive testing – Radiation methods for computed tomography – Part 4: Qualification (ISO 15708-4:2017; EN ISO 15708-4:2019)

HZN/TO 146, Kvaliteta zraka

HRN EN 17199-1:2019 en pr
Profesionalna izloženost – Mjerenje prašnosti rastresitoga materijala koji sadrži ili otpušta nanoobjekte i njihove agregate i aglomerate (NOAA) ili druge čestice koje se udišu – 1. dio: Zahtjevi i odabir metoda ispitivanja (EN 17199-1:2019)
Workplace exposure – Measurement of dustiness of bulk materials that contain or release respirable NOAA and other respirable particles – Part 1: Requirements and choice of test methods (EN 17199-1:2019)

HRN EN 17199-2:2019 en pr
Profesionalna izloženost – Mjerenje prašnosti rastresitoga materijala koji sadrži ili otpušta nanoobjekte i njihove agregate i aglomerate (NOAA) ili druge čestice koje se udišu – 2. dio: Metoda rotirajućeg bubnja (EN 17199-2:2019)
Workplace exposure – Measurement of dustiness of bulk materials that contain or release respirable NOAA or other respirable particles – Part 2: Rotating drum method (EN 17199-2:2019)

HRN EN 17199-3:2019 en pr
Profesionalna izloženost – Mjerenje prašnosti rastresitoga materijala koji sadrži ili otpušta nanoobjekte i njihove agregate i aglomerate (NOAA) ili druge čestice koje se udišu – 3. dio: Metoda kontinuiranog pada (EN 17199-3:2019)
Workplace exposure – Measurement of dustiness of bulk materials that contain or release respirable NOAA or other respirable particles – Part 3: Continuous drop method (EN 17199-3:2019)

HRN EN 17199-4:2019 en pr
Profesionalna izloženost – Mjerenje prašnosti rastresitoga materijala koji sadrži ili otpušta nanoobjekte i njihove agregate i aglomerate (NOAA) ili druge čestice koje se udišu – 4. dio: Metoda malog rotirajućeg bubnja (EN 17199-4:2019)
Workplace exposure – Measurement of dustiness of bulk materials that contain or release respirable NOAA or other respirable particles – Part 4: Small rotating drum method (EN 17199-4:2019)

HRN EN 17199-5:2019 en pr
Profesionalna izloženost – Mjerenje prašnosti rastresitoga materijala koji sadrži ili otpušta nanoobjekte i njihove agregate i aglomerate (NOAA) ili druge čestice koje se udišu – 5. dio: Metoda vrtložne tresilice (EN 17199-5:2019)
Workplace exposure – Measurement of dustiness of bulk materials that contain or release respirable NOAA or other respirable particles – Part 5: Vortex shaker method (EN 17199-5:2019)

HZN/TO 147, Kvaliteta vode

HRN EN ISO 10704:2019 en pr
Kvaliteta vode – Ukupna alfa i ukupna beta aktivnost – Metoda depozicije tankog izvora (ISO 10704:2019; EN ISO 10704:2019)
Water quality – Gross alpha and gross beta activity – Test method using thin source deposit (ISO 10704:2019; EN ISO 10704:2019)

HZN/TO 147/PO 7, Kvaliteta vode; Mikrobiološka i biološka ispitivanja

HRN EN 17204:2019 en pr
Kvaliteta vode – Smjernice za analizu mezozooplanktona iz morskih i bočatih voda (EN 17204:2019)
Water quality – Guidance on analysis of mesozooplankton from marine and brackish waters (EN 17204:2019)

HZN/TO 159, Ergonomija

HRN EN ISO 27501:2019 en pr
Organizacija usmjerena prema čovjeku – Smjernica za menadžere (ISO 27501:2019; EN ISO 27501:2019)
The human-centred organization – Guidance for managers (ISO 27501:2019; EN ISO 27501:2019)

HZN/TO 190, Kvaliteta tla

HRN ISO 15799:2019 en pr
Kvaliteta tla – Upute za ekotoksikološku karakterizaciju tla i materijala u tlu (ISO 15799:2019)
Soil quality – Guidance on the ecotoxicological characterization of soils and soil materials (ISO 15799:2019)

HZN/TO 211, Geoinformacije/Geomatika

HRN EN ISO 19112:2019 en pr
Geoinformacije – Prostorno određivanje geografskim identifikatorima (ISO 19112:2019; EN ISO 19112:2019)
Geographic information – Spatial referencing by geographic identifiers (ISO 19112:2019; EN ISO 19112:2019)

HRN ISO 19127:2019 en pr
Geoinformacije – Geodetsko prostorno registriranje (ISO 19127:2019)
Geographic information – Geodetic register (ISO 19127:2019)

HRN ISO 19130-1:2019 en pr
Geoinformacije – Modeli slikovnih senzora za geopozicioniranje – 1. dio: Osnove (ISO 19130-1:2018)
Geographic information – Imagery sensor models for geopositioning – Part 1: Fundamentals (ISO 19130-1:2018)

HRS EN ISO/TS 19139-1:2019 en pr
Geoinformacije – Implementacija XML sheme – 1. dio: Pravila kodiranja (ISO/TS 19139-1:2019; CEN ISO/TS 19139-1:2019)
Geographic information – XML schema implementation – Part 1: Encoding rules (ISO/TS 19139-1:2019; CEN ISO/TS 19139-1:2019)

HZN/TO 218, Drvo

HRN EN 17009:2019 en pr
Podovi od lignificiranih materijala, osim drva – Značajke, ocjenjivanje i provjera stalnosti svojstava i označavanje (EN 17009:2019)
Flooring of lignified materials other than wood – Characteristics, assessment and verification of constancy of performance and marking (EN 17009:2019)

HZN/TO 221, Geosintetici

HRN EN ISO 10320:2019 en pr
Geosintetici – Identifikacija na gradilištu (ISO 10320:2019; EN ISO 10320:2019)
Geosynthetics – Identification on site (ISO 10320:2019; EN ISO 10320:2019)

HZN/TO 502, Plinski uređaji

HRN EN 13611:2019 en pr
Sigurnosni i regulirajući uređaji za plamenike i uređaje na plinska i/ili tekuća goriva – Opći zahtjevi (EN 13611:2019)
Safety and control devices for burners and appliances burning gaseous and/or liquid fuels – General requirements (EN 13611:2019)

HZN/TO 503, Metalni materijali

HRN EN ISO 10893-6:2019 en pr
Nerazorno ispitivanje čeličnih cijevi – 6. dio: Radiografsko ispitivanje šavnog zavara elektrodočno zavarenih čeličnih cijevi radi otkrivanja nepravilnosti (ISO 10893-6:2019; EN ISO 10893-6:2019)
Non-destructive testing of steel tubes – Part 6: Radiographic testing of the weld seam of welded steel tubes for the detection of imperfections (ISO 10893-6:2019; EN ISO 10893-6:2019)

HRN EN ISO 10893-7:2019 en pr
Nerazorno ispitivanje čeličnih cijevi – 7. dio: Digitalno radiografsko ispitivanje šavnog zavara elektrodočno zavarenih čeličnih cijevi radi otkrivanja nepravilnosti (ISO 10893-7:2019; EN ISO 10893-7:2019)
Non-destructive testing of steel tubes – Part 7: Digital radiographic testing of the weld seam of welded steel tubes for the detection of imperfections (ISO 10893-7:2019; EN ISO 10893-7:2019)

HRN EN 14726:2019 en pr
Aluminij i aluminijeve legure – Određivanje kemijskog sastava aluminija i aluminijevih legura optičkom emisijskom spektrometrijom uz pobudu iskrom (EN 14726:2019)
Aluminium and aluminium alloys – Determination of the chemical composition of aluminium and aluminium alloys by spark optical emission spectrometry (EN 14726:2019)

HZN/TO 522, Karakterizacija i zbrinjavanje otpada

HRN EN 16815:2019 en pr
CleANopen – Aplikacijski profil za komunalna vozila (EN 16815:2019)
CleANopen – Application profile for municipal vehicles (EN 16815:2019)

HZN/TO 524, Inteligentni transportni sustavi

HRS CEN/TS 17241:2019 en pr
Inteligentni transportni sustavi – Sustavi upravljanja prometom – Zahtjevi za stanje, kvarove i kvalitetu (CEN/TS 17241:2019)
Intelligent transport systems – Traffic management systems – Status, fault and quality requirements (CEN/TS 17241:2019)

HRS CEN/TS 17249-5:2019 en pr
Inteligentni transportni sustavi – Elektronička sigurnost – 5. dio: Elektronički hitni poziv za UNECE kategorije L1 i L3 vozila s pogonom na dva kotača (CEN/TS 17249-5:2019)
Intelligent transport systems – eSafety – Part 5: eCall for UNECE Category L1 and L3 powered two-wheeled vehicles (CEN/TS 17249-5:2019)

HRS CEN/TS 17249-6:2019 en pr
Inteligentni transportni sustavi – Elektronička sigurnost – 6. dio: Elektronički hitni poziv za UNECE kategorije L2, L4, L5, L6 i L7 tricikle i četverocikle (CEN/TS 17249-6:2019)
Intelligent transport systems – eSafety – Part 6: eCall for UNECE Category L2, L4, L5, L6 and L7 tricycles and quadricycles (CEN/TS 17249-6:2019)

HRN EN ISO 17264:2010/A1:2019 en pr
Inteligentni transportni sustavi – Automatska identifikacija vozila i opreme – Sučelja (ISO 17264:2009/Amd 1:2019; EN ISO 17264:2009/A1:2019)
Intelligent transport systems – Automatic vehicle and equipment identification – Interfaces (ISO 17264:2009/Amd 1:2019; EN ISO 17264:2009/A1:2019)

HZN/TO 528, Oprema za željeznice

HRN EN 13674-4:2019 en pr
Željeznički sustav – Željeznički gornji ustroj – Tračnica – 4. dio: Vignoleove željezničke tračnice mase od 27 kg/m do 46 kg/m, isključujući 46 kg/m (EN 13674-4:2019)
Railway applications – Track – Rail – Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m (EN 13674-4:2019)

HRN EN 13848-1:2019 en pr
Željeznički sustav – Željeznički gornji ustroj – Kvaliteta kolosiječne geometrije – 1. dio: Definiranje kolosiječne geometrije (EN 13848-1:2019)
Railway applications – Track – Track geometry quality – Part 1: Characterisation of track geometry (EN 13848-1:2019)

HRN EN 14811:2019 en pr
Željeznički sustav – Željeznički gornji ustroj – Tračnice za posebne namjene – Žlijebaste tračnice i profili pridružene konstrukcije (EN 14811:2019)
Railway applications – Track – Special purpose rail – Grooved rails and associated construction profiles (EN 14811:2019)

HRN EN 15329:2019 en pr
Željeznički sustav – Kočenje – Nosač kočnih umetaka i klin za kočne umetke (EN 15329:2019)
Railway applications – Braking – Brake block holder and brake block key (EN 15329:2019)

HRN EN 16860:2019 en pr
Željeznički sustav – Zahtjevi i opća načela za osiguravanje korisnog tereta u željezničkom teretnom prijevozu (EN 16860:2019)
Railway applications – Requirements and general principles for securing payload in rail freight transport (EN 16860:2019)

HZN/TO 531, *Plastika i guma*

HRN EN 17228:2019 en pr
Plastika – Polimeri na biološkoj osnovi, plastika i proizvodi od plastike – Nazivlje, svojstva i komunikacija (EN 17228:2019)
Plastics – Bio-based polymers, plastics, and plastic products – Terminology, characteristics and communication (EN 17228:2019)

HRN EN ISO 19062-2:2019 en pr
Plastika – Akrilonitril/butadien/stirenski (ABS) prešani i ekstrudirani materijali – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 19062-2:2019; EN ISO 19062-2:2019)
Plastics – Acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 19062-2:2019; EN ISO 19062-2:2019)

HRN EN ISO 19065-2:2019 en pr
Plastika – Akrilonitril/stiren/akrilat (ASA), akrilonitril/(etilen-propilen-dien)/stiren (AEPDS) i akrilonitril/(klorirani polietilen)/stiren (ACS) prešani i ekstrudirani materijali – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 19065-2:2019; EN ISO 19065-2:2019)
Plastics – Acrylonitrile-styrene-acrylate (ASA), acrylonitrile-(ethylene-propylene-diene)-styrene (AEPDS) and acrylonitrile-(chlorinated polyethylene)-styrene (ACS) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 19065-2:2019; EN ISO 19065-2:2019)

HRN EN ISO 20558-1:2019 en pr
Plastika – Poli(fenilen sulfidni) (PPS) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnovne specifikacija (ISO 20558-1:2018; EN ISO 20558-1:2019)
Plastics – Poly(phenylene sulfide) (PPS) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 20558-1:2018; EN ISO 20558-1:2019)

HRN EN ISO 20558-2:2019 en pr
Plastika – Poli(fenilen sulfidni) (PPS) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 20558-2:2018; EN ISO 20558-2:2019)
Plastics – Poly(phenylene sulfide) (PPS) moulding and extrusion materials – Part 2: Preparation of test specimen and determination of properties (ISO 20558-2:2018; EN ISO 20558-2:2019)

HRN EN ISO 21309-1:2019 en pr
Plastika – Etilen /vinil alkohol (EVOH) kopolimerni materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnovne specifikacija (ISO 21309-1:2019; EN ISO 21309-1:2019)
Plastics – Ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 21309-1:2019; EN ISO 21309-1:2019)

HRN EN ISO 21309-2:2019 en pr
Plastika – Etilen/vinil-alkoholni (EVOH) kopolimerni materijali za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 21309-2:2019; EN ISO 21309-2:2019)
Plastics – Ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 21309-2:2019; EN ISO 21309-2:2019)

HZN/TO 533, *Kolničke konstrukcije*

HRN EN ISO 13473-1:2019 en pr
Karakterizacija teksture kolnika uporabom profila površine – 1. dio: Određivanje srednje dubine teksture profila (ISO 13473-1:2019; EN ISO 13473-1:2019)
Characterization of pavement texture by use of surface profiles – Part 1: Determination of mean profile depth (ISO 13473-1:2019; EN ISO 13473-1:2019)

HRN EN 14187-5:2019 en pr
Hladne brtvene mase – Metode ispitivanja – 5. dio: Određivanje otpornosti na hidrolizu (EN 14187-5:2019)
Cold applied joint sealants – Test methods – Part 5: Determination of the resistance to hydrolysis (EN 14187-5:2019)

HRN EN 14187-7:2019 en pr
Hladne brtvene mase – Metode ispitivanja – 7. dio: Određivanje otpornosti na plamen (EN 14187-7:2019)
Cold applied joint sealants – Test methods – Part 7: Determination of the resistance to flame (EN 14187-7:2019)

HRN EN 14187-9:2019 en pr
Hladne brtvene mase – Metode ispitivanja – 9. dio: Ispitivanje učinkovitosti brtvenih masa (EN 14187-9:2019)
Cold applied joint sealants – Test methods – Part 9: Function testing of joint sealants (EN 14187-9:2019)

HZN/TO 534, *Spremnici za teret*

HRN EN 12285-3:2019 en pr
Čelični spremnici izrađeni u radionici – 3. dio: Horizontalni valjkasti spremnici s jednostrukom i dvostrukom stijenkom za podzemno skladištenje zapaljivih i nezapaljivih tekućina onečišćenih vodom za grijanje i hlađenje zgrada (EN 12285-3:2019)
Workshop fabricated steel tanks – Part 3: Horizontal cylindrical single skin and double skin tanks for the underground storage of flammable and nonflammable water polluting liquids for heating and cooling of buildings (EN 12285-3:2019)

HZN/TO 536, *Vrata, prozori i staklo u graditeljstvu*

HRN EN 12898:2019 en pr
Staklo u graditeljstvu – Određivanje emisivnosti (EN 12898:2019)
Glass in building – Determination of the emissivity (EN 12898:2019)

HZN/TO 541, *Sustavi grijanja, ventilacije i klimatizacije u građevinama*

HRN EN 12976-2:2019 en pr
Solarni toplinski sustavi i komponente – Tvornički izrađeni sustavi – 2. dio: Metode ispitivanja (EN 12976-2:2019)
Thermal solar systems and components – Factory made systems – Part 2: Test methods (EN 12976-2:2019)

HZN/TO 550, *Opskrba vodom*

HRN EN 17215:2019 en pr
Kemikalije koje se upotrebljavaju u obradi vode namijenjene ljudskoj potrošnji – Koagulant na bazi željeza – Analitičke metode (EN 17215:2019)
Chemicals used for treatment of water intended for human consumption – Iron-based coagulants – Analytical methods (EN 17215:2019)

HZN/TO 553, *Predgotovljeni proizvodi*

HRN EN ISO 10545-4:2019 en pr
Keramičke pločice – 4. dio: Određivanje nosivosti i čvrstoće pri savijanju (ISO 10545-4:2019; EN ISO 10545-4:2019)
Ceramic tiles – Part 4: Determination of modulus of rupture and breaking strength (ISO 10545-4:2019; EN ISO 10545-4:2019)

HZN/TO 554, Obrada otpadnih voda

HRN EN 1295-1:2019 en pr
Statički proračun podzemnih cjevovoda pod različitim uvjetima opterećenja – 1. dio: Opći zahtjevi (EN 1295-1:2019)
Structural design of buried pipelines under various conditions of loading – Part 1: General requirements (EN 1295-1:2019)

HZN/TO 555, Medicinski proizvodi

HRN EN ISO 20186-1:2019 en pr
Molekularna in vitro dijagnostička ispitivanja – Specifikacije za procese prije ispitivanja za vensku punu krv – 1. dio: Izolirana RNK (ISO 20186-1:2019; EN ISO 20186-1:2019)
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for venous whole blood – Part 1: Isolated cellular RNA (ISO 20186-1:2019; EN ISO 20186-1:2019)

HRN EN ISO 20186-2:2019 en pr
Molekularna in vitro dijagnostička ispitivanja – Specifikacije za procese prije ispitivanja za vensku punu krv – 2. dio: Izolirana genomska DNK (ISO 20186-2:2019; EN ISO 20186-2:2019)
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for venous whole blood – Part 2: Isolated genomic DNA (ISO 20186-2:2019; EN ISO 20186-2:2019)

HZN/TO 557, Zaštitna odjeća

HRN EN 343:2019 en pr
Zaštitna odjeća – Zaštita od kiše (EN 343:2019)
Protective clothing – Protection against rain (EN 343:2019)

HRN EN 943-1:2019 en pr
Odjeća za zaštitu od opasnih čvrstih, tekućih i plinovitih kemikalija, uključujući tekuće i čvrste aerosole – 1. dio: Zahtjevi za tip 1 (plinonepropusnu) odjeću za zaštitu od kemikalija (EN 943-1:2015+A1:2019)
Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols – Part 1: Performance requirements for Type 1 (gas-tight) chemical protective suits (EN 943-1:2015+A1:2019)

HRN EN 943-2:2019 en pr
Odjeća za zaštitu od opasnih čvrstih, tekućih i plinovitih kemikalija, uključujući tekuće i čvrste aerosole – 2. dio: Zahtjevi za svojstva za odjeću tipa 1 (plinonepropusnu) za zaštitu od kemikalija za spasilačke skupine (ET) (EN 943-2:2019)
Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols – Part 2: Performance requirements for Type 1 (gas-tight) chemical protective suits for emergency teams (ET) (EN 943-2:2019)

HZN/TO 560, Tekstilni proizvodi

HRN EN ISO 1833-6:2019 en pr
Tekstil – Kvantitativna kemijska analiza – 6. dio: Mješavine viskoznog vlakna, određenih tipova bakrenih, modalnih ili liocelnih vlakana s određenim drugim vlaknima (metoda s uporabom mravlje kiseline i cink-klorida) (ISO 1833-6:2018; EN ISO 1833-6:2019)
Textiles – Quantitative chemical analysis – Part 6: Mixtures of viscose, certain types of cupro, modal or lyocell with certain other fibres (method using formic acid and zinc chloride) (ISO 1833-6:2018; EN ISO 1833-6:2019)

HRN EN ISO 1833-20:2019 en pr
Tekstil – Kvantitativna kemijska analiza – 20. dio: Mješavine elastanskih vlakana i određenih drugih vlakana (metoda s uporabom dimetilacetamida) (ISO 1833-20:2018; EN ISO 1833-20:2019)
Textiles – Quantitative chemical analysis – Part 20: Mixtures of elastane and certain other fibres (method using dimethylacetamide) (ISO 1833-20:2018; EN ISO 1833-20:2019)

HRN EN ISO 21084:2019 en pr
Tekstil – Metoda određivanja alkilfenola (AP) (ISO 21084:2019; EN ISO 21084:2019)
Textiles – Method for determination of alkylphenols (AP) (ISO 21084:2019; EN ISO 21084:2019)

HZN/TO 561, Kotlovi, posude pod tlakom, cjevovodi i plinske boce

HRN EN 12817:2019 en pr
Oprema i pribor za UNP – Pregled i ponovno potvrđivanje spremnika za UNP do uključivo 13 m³ (EN 12817:2019)
LPG Equipment and accessories – Inspection and requalification of LPG pressure vessels up to and including 13 m³ (EN 12817:2019)

HRN EN 12819:2019 en pr
Oprema i pribor za UNP – Pregled i ponovno potvrđivanje spremnika za UNP kapaciteta većeg od 13 m³ (EN 12819:2019)
LPG equipment and accessories – Inspection and requalification of LPG pressure vessels greater than 13 m³ (EN 12819:2019)

HRN EN 13445-3:2014/A6:2019 en pr
Neložene tlačne posude – 3. dio: Projektiranje (EN 13445-3:2014/A6:2019)
Unfired pressure vessels – Part 3: Design (EN 13445-3:2014/A6:2019)

HRN EN 13480-5:2017/A1:2019 en pr
Metalni industrijski cjevovodi – 5. dio: Pregled i ispitivanje (EN 13480-5:2017/A1:2019)
Metallic industrial piping – Part 5: Inspection and testing (EN 13480-5:2017/A1:2019)

HZN/TO 563, Sigurnost strojeva

HRN EN 16985:2019 en pr
Komore za nanošenje prevlaka od organskih materijala prskanjem – Sigurnosni zahtjevi (EN 16985:2018)
Spray booths for organic coating material – Safety requirements (EN 16985:2018)

HZN/TO 577, Metode ispitivanja za karakterizaciju krutih i tekućih sastavnica i opterećenja okoliša

HRN EN ISO 23753-1:2019 en pr
Kvaliteta tla – Određivanje dehidrogenazne aktivnosti u tlu – 1. dio: Metoda s trifeniltetrazolom kloridom (TTC) (ISO 23753-1:2019; EN ISO 23753-1:2019)
Soil quality – Determination of dehydrogenases activity in soils – Part 1: Method using triphenyltetrazolium chloride (TTC) (ISO 23753-1:2019; EN ISO 23753-1:2019)

HRN EN ISO 23753-2:2019 en pr
Kvaliteta tla – Određivanje dehidrogenazne aktivnosti u tlu – 2. dio: Metoda sa jodtetrazolom kloridom (INT) (ISO 23753-2:2019; EN ISO 23753-2:2019)
Soil quality – Determination of dehydrogenase activity in soils – Part 2: Method using iodotetrazolium chloride (INT) (ISO 23753-2:2019; EN ISO 23753-2:2019)

HZN/TO E8, Sustavski vidovi opskrbe električnom energijom

HRN EN 50549-2:2019/Ispr.1:2019 en pr
Zahtjevi za priključak elektrane na distribucijsku mrežu – 2. dio: Priključak na srednjonaponsku distribucijsku mrežu – Elektrane do uključivo tipa B (EN 50549-2:2019/AC:2019)
Requirements for generating plants to be connected in parallel with distribution networks – Part 2: Connection to a MV distribution network – Generating plants up to and including Type B (EN 50549-2:2019/AC:2019)

HZN/TO E17, Sklopni i upravljački uređaji

HRN EN IEC 60947-7-4:2019 en pr
Niskonaponska sklopna aparatura – Dio 7-4: Pomoćna oprema – PCB redne stezaljke za bakrene vodiče (IEC 60947-7-4:2019; EN IEC 60947-7-4:2019)
Low-voltage switchgear and controlgear – Part 7-4: Ancillary equipment – PCB terminal blocks for copper conductors (IEC 60947-7-4:2019; EN IEC 60947-7-4:2019)

HZN/TO E23, Električni instalacijski pribor

HRN EN IEC 61020-1:2019 en pr
Elektromehaničke sklopke za uporabu u električnoj i elektroničkoj opremi – 1. dio: Generička specifikacija (IEC 61020-1:2019; EN IEC 61020-1:2019)
Electromechanical switches for use in electrical and electronic equipment – Part 1: Generic specification (IEC 61020-1:2019; EN IEC 61020-1:2019)

HRN EN 62752:2016/Ispr.1:2019 en pr
Upravljački i zaštitni uređaj unutar kabela (IC-CPD) za punjenje električnih cestovnih vozila načinom "2" (IEC 62752:2016/Corr.1:2019; EN 62752:2016/AC:2019)
In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPDs) (IEC 62752:2016/Corr.1:2019; EN 62752:2016/AC:2019)

HZN/TO E34, Žarulje, svjetiljke i pripadna oprema

HRN EN IEC 62386-220:2019 en pr
Digitalno upravljanje rasvjetom – 220. dio: Posebni zahtjevi za predspojne naprave – Rad u slučaju nužde koji se napaja iz centralnog sustava (tip uređaja 19) (IEC 62386-220:2019; EN IEC 62386-220:2019)
Digital addressable lighting interface – Part 220: Particular requirements for control gear – Centrally supplied emergency operation (device type 19) (IEC 62386-220:2019; EN IEC 62386-220:2019)

HZN/TO E36, Izolatori

HRN EN 50673:2019 en pr
Utični tip provodnih izolatora za 72,5 kV sa 630 A i 1250 A za električnu opremu (EN 50673:2019)
Plug-in type bushings for 72,5 kV with 630 A and 1 250 A for electrical equipment (EN 50673:2019)

HRN EN IEC/IEEE 65700-19-03:2018/Ispr.1:2019 en pr
Provodni izolatori za istosmjerne primjene (EN IEC/IEEE 65700-19-03:2018/AC:2019)
Bushings for DC application (EN IEC/IEEE 65700-19-03:2018/AC:2019)

HZN/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa

HRN EN IEC 61918:2018/Ispr.1:2019 en pr
Industrijske komunikacijske mreže – Instalacija komunikacijskih mreža u industrijskim uvjetima (EN IEC 61918:2018/AC:2019)
Industrial communication networks – Installation of communication networks in industrial premises (EN IEC 61918:2018/AC:2019)

HZN/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama

HRN EN IEC 55016-1-4:2019 en pr
Specifikacija uređaja i metoda za mjerenja radiosmetnja i otpornosti – Dio 1-4: Uređaji za mjerenje radiosmetnja i otpornosti – Antene i ispitna mjesta za mjerenje zračenih smetnja (CISPR 16-1-4:2019; EN IEC 55016-1-4:2019)
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 (CISPR 16-1-4:2019; EN IEC 55016-1-4:2019)

HZN/TO T4, Normizacija u telekomunikacijama

HRN EN 301 489-3 V2.1.1:2019 en pr
Norma za elektromagnetsku kompatibilnost (EMC) radijske opreme i službe – 3. dio: Posebni uvjeti za uređaje kratkoga dometa (SRD) na frekvencijama između 9 kHz i 246 GHz – Harmonizirana norma koja obuhvaća bitne zahtjeve iz članka 3.1(b) Direktive 2014/53/EU (EN 301 489-3 V2.1.1:2019)
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services – Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz – Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU (EN 301 489-3 V2.1.1:2019)

HRN EN 302 637-2 V1.4.1:2019 en pr
Inteligentni transportni sustavi (ITS) – Komunikacije među vozilima – Osnovni skup primjena – 2. dio: Specifikacija bazične usluge suradničkog osvješćivanja (EN 302 637-2 V1.4.1:2019)
Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Part 2: Specification of Cooperative Awareness Basic Service (EN 302 637-2 V1.4.1:2019)

HRN EN 302 637-3 V1.3.1:2019 en pr
Inteligentni transportni sustavi (ITS) – Komunikacije među vozilima – Osnovni skup primjena – 3. dio: Specifikacije decentralizirane bazične usluge obavješćivanja o okolišu (EN 302 637-3 V1.3.1:2019)
Intelligent Transport Systems (ITS); Vehicular Communications – Basic Set of Applications – Part 3: Specifications of Decentralized Environmental Notification Basic Service (EN 302 637-3 V1.3.1:2019)

HRN EN 303 470 V1.1.1:2019 en pr
Ekoinženjering (EE) – Metodologija mjerenja energetske učinkovitosti i metrika za poslužitelje (EN 303 470 V1.1.1:2019)
Environmental Engineering (EE) – Energy Efficiency measurement methodology, and metrics for servers (EN 303 470 V1.1.1:2019)

HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1

HRN EN ISO 8871-3:2008/A1:2019 en pr
Elastomerni dijelovi za parenteralne preparate i uređaje za farmaceutsku primjenu – 3. dio: Određivanje broja oslobođenih čestica (ISO 8871-3:2003/Amd 1:2018; EN ISO 8871-3:2004/A1:2019)
Elastomeric parts for parenterals and for devices for pharmaceutical use – Part 3: Determination of released-particle count (ISO 8871-3:2003/Amd 1:2018; EN ISO 8871-3:2004/A1:2019)

HRN EN 14683:2019 en pr
Kirurške maske – Zahtjevi i metode ispitivanja (EN 14683:2019)
Medical face masks – Requirements and test methods (EN 14683:2019)

HRN EN ISO 23500-1:2019 en pr
Priprema i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 1. dio: Opći zahtjevi (ISO 23500-1:2019; EN ISO 23500-1:2019)
Preparation and quality management of fluids for haemodialysis and related therapies – Part 1: General requirements (ISO 23500-1:2019; EN ISO 23500-1:2019)

HRN EN ISO 23500-2:2019 en pr
Priprema i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 2. dio: Uređaji za obradu vode za potrebe hemodijalize i srodnih terapija (ISO 23500-2:2019; EN ISO 23500-2:2019)
Preparation and quality management of fluids for haemodialysis and related therapies – Part 2: Water treatment equipment for haemodialysis applications and related therapies (ISO 23500-2:2019; EN ISO 23500-2:2019)

HRN EN ISO 23500-3:2019 en pr
Priprema i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 3. dio: Voda za hemodijalizu i srodne terapije (ISO 23500-3:2019; EN ISO 23500-3:2019)
Preparation and quality management of fluids for haemodialysis and related therapies – Part 3: Water for haemodialysis and related therapies (ISO 23500-3:2019; EN ISO 23500-3:2019)

HRN EN ISO 23500-4:2019 en pr
Priprema i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije – 4. dio: Koncentrati za hemodijalizu i srodne terapije (ISO 23500-4:2019; EN ISO 23500-4:2019)
Preparation and quality management of fluids for haemodialysis and related therapies – Part 4: Concentrates for haemodialysis and related therapies (ISO 23500-4:2019; EN ISO 23500-4:2019)

HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1

HRN EN 3155-004:2019 en pr
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 004: Kontakti, električni, muški, tip A, za krimpovanje, razreda T – Norma za proizvod (EN 3155-004:2019)
Aerospace series – Electrical contacts used in elements of connection – Part 004: Contacts, electrical, male, type A, crimp, class T – Product standard (EN 3155-004:2019)

HRN EN 3155-005:2019 en pr
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 005: Kontakti, električni, ženski, tip A, za krimpovanje, razreda T – Norma za proizvod (EN 3155-005:2019)
Aerospace series – Electrical contacts used in elements of connection – Part 005: Contacts, electrical, female, type A, crimp, class T – Product standard (EN 3155-005:2019)

HRN EN 3645-004:2019 en pr
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – Dio 004: Utičnica, bez dotoka zraka, s kvadratnom priрубnicom za montažu – Norma za proizvod (EN 3645-004:2019)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 004: Receptacle, hermetic, square flange mounting – Product standard (EN 3645-004:2019)

HRN EN 3645-009:2019 en pr
Zrakoplovstvo – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – Dio 009: Utičnica, okrugla priрубnica, ugradanja sa kontra maticom – Norma za proizvod (EN 3645-009:2019)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 009: Receptacle, round flange, jam nut mounting – Product standard (EN 3645-009:2019)

HRN EN 3833:2019 en pr
Zrakoplovstvo – Vijci, s "MJ" navojem, otporni na toplinu od legure na bazi nikla NI-PH2601 (Inconel 718), pasivizirani – Klasifikacija: 1550 MPa (pri temperaturi okoline)/650 °C – Tehnička specifikacija (EN 3833:2019)
Aerospace series – Bolts, MJ threads, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), passivated – Classification: 1 550 MPa (at ambient temperature) / 650 °C – Technical specification (EN 3833:2019)

HRN EN 16602-70-26:2019 en pr
Osiguranje kvalitete proizvoda za upotrebu u svemiru – Krimpanje električnih kontakata visoke pouzdanosti (EN 16602-70-26:2019)
Space product assurance – Crimping of high-reliability electrical connections (EN 16602-70-26:2019)

HZN/TU V1, Elektronika 1

HRN EN 50551-1:2019 en pr
Jednosmjerni i dvosmjerni kabeli za uporabu u završnim sklopovima kabela – 1. dio: Prazna tiskanica za detaljnu specifikaciju i minimalni zahtjevi (EN 50551-1:2019)
Simplex and duplex cables for use in terminated cable assemblies – Part 1: Blank Detail Specification and minimum requirements (EN 50551-1:2019)

HRN EN IEC 60286-3:2019 en pr
Pakiranje komponenata za automatsko rukovanje – Pakiranje komponenata za površinsku montažu na neprekidnu traku (IEC 60286-3:2019; EN IEC 60286-3:2019)
Packaging of components for automatic handling – Part 3: Packaging of surface mount components on continuous tapes (IEC 60286-3:2019; EN IEC 60286-3:2019)

HRN EN 60603-7:2010/A2:2019 en pr
Konektori za elektroničku opremu – 7. dio: Detaljne specifikacije za 8-smjerne, neoklopljene, slobodne i fiksne konektore (IEC 60603-7:2008/am2:2019; EN 60603-7:2009/A2:2019)
Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors (IEC 60603-7:2008/am2:2019; EN 60603-7:2009/A2:2019)

HRN EN 61076-1:2009/A1:2019 en pr
Konektori za elektroničku opremu – Zahtjevi za proizvod – 1. dio: Opća specifikacija (IEC 61076-1:2006/am1:2019; EN 61076-1:2006/A1:2019)
Connectors for electronic equipment – Product requirements – Part 1: Generic specification (IEC 61076-1:2006/am1:2019; EN 61076-1:2006/A1:2019)

HRN EN IEC 61300-2-4:2019 en pr
Svjetlovodni uređaji za međusobno spajanje i pasivne komponente – Osnovni postupci ispitivanja i mjerenja – Dio 2-4: Ispitivanja – Zadržavanje vlakana ili kabela (IEC 61300-2-4:2019; EN IEC 61300-2-4:2019)
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre or cable retention (IEC 61300-2-4:2019; EN IEC 61300-2-4:2019)

HZN/TU W1, Energetska elektrotehnika 1

HRS CLC/TS 50677:2019 en pr
Perilice rublja i perilice-sušilice za kućansku i sličnu uporabu – Metoda za određivanje učinkovitosti ispiranja mjerenjem sadržaja površinsko aktivnih tvari na tekstilnim materijalima (CLC/TS 50677:2019)
Clothes washing machines and washer-dryers for household and similar use – Method for the determination of rinsing effectiveness by measurement of the surfactant content at textile materials (CLC/TS 50677:2019)

HRN EN IEC 62364:2019 en pr
Hidraulički strojevi – Vodič za postupanje s hidroabrazivnom erozijom u Kaplanovim, Francisovim i Peltonovim turbinama (IEC 62364:2019; EN IEC 62364:2019)
Hydraulic machines – Guide for dealing with hydro-abrasive erosion in Kaplan, Francis, and Pelton turbines (IEC 62364:2019; EN IEC 62364:2019)

1.3 Prijedlozi za prihvaćanje stranih norma iz izvorniku

Temeljem Zakona o normizaciji (Narodne novine 80/2013) Hrvatski zavod za norme na prijedlog tehničkih odbora objavljuje raspravu o prijedlogu za prihvaćanje stranih norma (međunarodnih, europskih i njemačkih norma) kao hrvatskih norma.

Pisane primjedbe na prijedloge za prihvaćanje norma dostavljaju se Hrvatskome zavodu za norme (uz naznaku tehničkog odbora i referencijsku oznaku norme) u roku od 30 dana od dana objave rasprave u službenom glasilu Hrvatskoga zavoda za norme (HZN e-glasilo).

HZN/TO 6, Papir, karton i pulpe

prEN ISO 536 en
Paper and board – Determination of grammage (ISO/DIS 536:2019)
Papir i karton – Određivanje gramature (ISO/DIS 536:2019)

HZN/TO 8, Brodogradnja

ISO 5894:2018 en
Ships and marine technology – Manholes with bolted covers
Brođovi i pomorska tehnologija – Provlake s poklopcima spojenim vijcima

prEN ISO 8849 en
Small craft – Electrically operated bilge pumps (ISO/DIS 8849:2019)

ISO 16304:2018 en
Ships and marine technology – Marine environment protection – Arrangement and management of port waste reception facilities
Brođovi i pomorska tehnologija – Zaštita morskog okoliša – Izvedba i upravljanje prihvatnih uređaja za otpad u lukama

ISO 17339:2018 en
Ships and marine technology – Life saving and fire protection – Sea anchors for survival craft and rescue boats
Brođovi i pomorska tehnologija – Spašavanje života i zaštita od požara – Zavlachna sidra za plovila za preživljavanje i brodice za prikupljanje

HZN/TO 28, Naftni proizvodi i maziva

EN ISO 4259-1:2017/prA1 en
Petroleum and related products – Precision of measurement methods and results – Part 1: Determination of precision data in relation to methods of test – Amendment 1: Test result validity process is to be moved into a separate reporting limit instruction (ISO 4259-1:2017/DAmD 1:2019)

EN ISO 4259-2:2017/prA1 en
Petroleum and related products – Precision of measurement methods and results – Part 2: Interpretation and application of precision data in relation to methods of test – Amendment 1: Correction of several errors in terms of internal references, mistakes in formulas and in sheets (ISO 4259-2:2017/DAmD 1:2019)

EN ISO 6246:2017/prA1 en
Petroleum products – Gum content of fuels – Jet evaporation method – Amendment 1: Change the purity requirement for n-heptane (ISO 6246:2017/DAmD 1:2019)

prEN ISO 8222 en
Petroleum measurement systems – Calibration – Temperature corrections for use when calibrating volumetric proving tanks (ISO/DIS 8222:2019)
Mjerni sustavi za naftu – Umjeravanje – Korekcije temperature za primjenu pri umjeravanju volumena etalonskih spremnika (ISO/DIS 8222:2019)

prEN ISO 14935 en
Petroleum and related products – Determination of wick flame persistence of fire-resistant fluids (ISO/DIS 14935:2019)
Naftni i srodni proizvodi – Određivanje otpornosti na zapaljenje stijenja vatrootpornih tekućina (ISO/DIS 14935:2019)

HZN/TO 43, Akustika

prEN ISO 12999-1 en
Acoustics – Determination and application of measurement uncertainties in building acoustics – Part 1: Sound insulation (ISO/DIS 12999-1:2019)
Akustika – Određivanje i primjena mjerne nesigurnosti u akustici u zgradarstvu – 1. dio: Zvučna izolacija (ISO/DIS 12999-1:2019)

HZN/TO 74, Cement i vapno

prEN 197-2 en
Cement – Part 2: Conformity evaluation
Cement – 2. dio: Vrednovanje sukladnosti

HZN/TO 92, Zaštita od požara

EN 1366-1:2014/prA1 en
Fire resistance tests for service installations – Part 1: Ventilation ducts
Ispitivanja otpornosti na požar instalacija – 1. dio: Ventilacijski kanali

prEN 1366-8 en
Fire resistance tests for service installations – Part 8: Smoke extraction ducts
Ispitivanja otpornosti servisnih instalacija na požar – 8. dio: Kanali za odimljavanje

EN 1366-12:2014/prA1 en
Fire resistance tests for service installations – Part 12: Non-mechanical fire barrier for ventilation ductwork
Ispitivanja otpornosti na požar servisnih instalacija – 12. dio: Nemehaničke protupožarne zaklopke

HZN/TO 108, Mehaničke vibracije i udari

prEN ISO 28927-13 en
Hand-held portable power tools – Test methods for evaluation of vibration emission – Part 13: Fastener driving tools (ISO/DIS 28927-13:2019)
Ručni prijenosni strojni alati – Metode ispitivanja za vrednovanje emisije vibracija – 13. dio: Alati za pribijanje (ISO/DIS 28927-13:2019)

HZN/TO 120, Koža i obuća

prEN ISO 13365-1 en
Leather – Chemical determination of the preservative (TCMT, PCMC, OPP, OIT) content in leather by liquid chromatography – Part 1: Total content (ISO/DIS 13365-1:2019)

prEN ISO 13365-2 en
Leather – Chemical determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography – Part 2: Extractable content (ISO/DIS 13365-2:2019)

prEN ISO 14088 en
Leather – Chemical tests – Quantitative analysis of tanning agents by filter method (ISO/DIS 14088:2019)
Koža – Kemijska ispitivanja – Kvantitativna analiza sredstava za štavljenje metodom filtracije (ISO/DIS 14088:2019)

prEN ISO 17234-1 en
Leather – Chemical tests for the determination of certain azo colorants in dyed leathers – Part 1: Determination of certain aromatic amines derived from azo colorants (ISO/DIS 17234-1:2019)
Koža – Kemijska ispitivanja za određivanje određenih azobojila u obojenoj koži – 1. dio: Određivanje određenih aromatskih amina dobivenih iz azobojila (ISO/DIS 17234-1:2019)

prEN ISO 18219-1 en
Leather – Determination of chlorinated hydrocarbons in leather – Part 1: Chromatographic method for short-chain chlorinated paraffins (SCCP) (ISO/DIS 18219-1:2019)
Koža – Određivanje kloriranih ugljikovodika u koži – 1. dio: Kromatografska metoda za kratkolančane klorirane parafine (SCCP) (ISO/DIS 18219-1:2019)

prEN ISO 19577 en
Footwear – Critical substances potentially present in footwear and footwear components – Determination of Nitrosamines (ISO/DIS 19577:2019)

HZN/TO 121, Anestetička i respiracijska oprema

prEN ISO 5362 en
Anaesthetic reservoir bags (ISO 5362:2006)
Zračni baloni za anesteziju (ISO 5362:2006)

prEN ISO 20789 en
Anaesthetic and respiratory equipment – Passive humidifiers (ISO 20789:2018)

prEN ISO 27427 en
Anaesthetic and respiratory equipment – Nebulizing systems and components (ISO 27427:2013)

EN ISO 80601-2-13:2012/prA1 en
Medical electrical equipment – Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation (ISO 80601-2-13:2011/Amd 1:2015)
Medicinski električni uređaji – Dio 2-13: Posebni zahtjevi za osnovnu sigurnost i nužne značajke anestezioloških radnih stanica (ISO 80601-2-13:2011/Amd 1:2015)

prEN ISO 80601-2-79 en
Medical electrical equipment – Part 2-79: Particular requirements for basic safety and essential performance of ventilatory support equipment for ventilatory impairment (ISO 80601-2-79:2018)

prEN ISO 80601-2-80 en
Medical electrical equipment – Part 2-80: Particular requirements for basic safety and essential performance of ventilatory support equipment for ventilatory insufficiency (ISO 80601-2-80:2018)

HZN/TO 135, Nerazorna ispitivanja

prEN 12543-2 en
Non-destructive testing – Characteristics of focal spots in industrial X-ray systems for use in non-destructive testing – Part 2: Pinhole camera radiographic method
Nerazorno ispitivanje – Značajke fokusnih točaka u industrijskim rendgenskim sustavima za uporabu pri nerazornom ispitivanju – 2. dio: Radiografska metoda pomoću dijafragme s rupicom

HZN/TO 159, Ergonomija

prEN ISO 9241-210 en
Ergonomics of human-system interaction – Part 210: Human-centred design for interactive systems (ISO/DIS 9241-210:2019)
Ergonomija interakcije čovjek-sustav – 210. dio: Dizajn interaktivnih sustava prilagođenih ljudima (ISO/DIS 9241-210:2019)

HZN/TO 163, Toplinska izolacija

prEN ISO 16534 en
Thermal insulating products for building applications – Determination of compressive creep (ISO/DIS 16534:2019)

prEN ISO 16546 en
Thermal insulating products for building applications – Determination of freeze-thaw resistance (ISO/DIS 16546:2019)

prEN ISO 29470 en
Thermal insulating products for building applications – Determination of the apparent density (ISO/DIS 29470:2019)

HZN/TO 181, Sigurnost igračka i proizvodi za djecu

prEN 1273 en
Child use and care articles – Baby walking frames – Safety requirements and test methods
Proizvodi za dojenčad i malu djecu – Hodalice – Sigurnosni zahtjevi i metode ispitivanja

prEN 13210-1 en
Child care articles – Part 1: Children's harnesses, reins
– Safety requirements and test methods

prEN 13210-2 en
Child care articles – Part 2: Children's harnesses incorporating
backpacks and reins – Safety requirements and test
methods

HZN/TO 196, Prirodni kamen

prEN 15388 en
Agglomerated stone – Slabs and cut-to-size products for
vanity and kitchen tops
Kameni aglomerat – Ploče i proizvodi piljeni na određenu
veličinu za kozmetičke stoliče i kuhinjske radne plohe

HZN/TO 215, Medicinska informatika

prEN 1064 en
Health informatics – Standard communication protocol
– Computer-assisted electrocardiography
Medicinska informatika – Komunikacijski protokol – Računalno
podržana elektrokardiografija

HZN/TO 217, Kozmetika

prEN ISO 24444 en
Cosmetics – Sun protection test methods – In vivo
determination of the sun protection factor (SPF)
(ISO/DIS 24444:2019)
Kozmetika – Metode određivanja zaštitnih faktora
– In vivo određivanje faktora zaštite od sunca (SPF)
(ISO/DIS 24444:2019)

HZN/TO 238, Čvrsta biogoriva

prEN ISO 21404 en
Solid biofuels – Determination of ash melting behaviour
(ISO/DIS 21404:2019)

HZN/TO 503, Metalni materijali

EN ISO 10893-3:2011/prA1 en
Non-destructive testing of steel tubes – Part 3: Automated
full peripheral flux leakage testing of seamless and welded
(except submerged arc-welded) ferromagnetic steel tubes for
the detection of longitudinal and/or transverse imperfections
(ISO 10893-3:2011/DAMd 1:2019)
Nerazorno ispitivanje čeličnih cijevi – 3. dio: Automatizirano
ispitivanje mjerenjem propuštanja magnetskog toka
bešavnih i zavarenih (osim elektrolučno zavarenih pod
praškom) ferromagnetskih čeličnih cijevi po cijelome
opsegu radi otkrivanja uzdužnih i/ili poprečnih nepravilnosti
(ISO 10893-3:2011/DAMd 1:2019)

prEN ISO 19879 en
Metallic tube connections for fluid power and general use
– Test methods for hydraulic fluid power connections
(ISO/DIS 19879:2019)
Metalni cijevni priključci za hidrauliku i opću uporabu – Metode
ispitivanja za hidraulične priključke (ISO/DIS 19879:2019)

HZN/TO 504, Korozija i zaštita metala i legura

prEN ISO 8289-1 en
Vitreous and porcelain enamels – Low-voltage test for
detecting and locating defects – Part 1: Swab test for
non-profiled surfaces (ISO/DIS 8289-1:2019)

prEN ISO 14713-2 en
Zinc coatings – Guidelines and recommendations for the
protection against corrosion of iron and steel in structures
– Part 2: Hot dip galvanizing (ISO/DIS 14713-2:2019)
Cinkove prevlake – Smjernice i preporuke za zaštitu od
korozije konstrukcija iz željeznog lijeva i čelika – 2. dio: Vruće
pocinčavanje (ISO/DIS 14713-2:2019)

HZN/TO 508, Ambalaža i pakiranje

prEN 16293 en
Packaging – Glass Packaging – Deep BVS finishes for still
wines
Pakiranje – Staklena ambalaža – Visoka BVS grla za mirna
vina

HZN/TO 522, Karakterizacija i zbrinjavanje otpada

prEN 17366 en
Waste management – Access control – Identification and
authorization
Gospodarenje otpadom – Kontrola pristupa – Identifikacija i
autorizacija

prEN 17367 en
Waste Management – Data communication between
communication management system and the back office
system for stationary containers

HZN/TO 524, Inteligentni transportni sustavi

FprCEN/TS 17297-2 en
Intelligent transport systems – Location Referencing
Harmonisation for Urban-ITS – Part 2: Transformation
methods

HZN/TO 528, Oprema za željeznice

prEN 17343 en
Railway applications – General terms and definitions

prEN 17355 en
Railway applications – Communication device for urban rail
– System requirements

HZN/TO 529, Granici, dizalice i prenosila neprekidne dobave

prEN 12999 en
Cranes - Loader cranes
Granici – Pretovarni granici

prEN 13001-3-7 en
Cranes – General design – Part 3-7: Limit states and proof of
competence of machinery – Gears and gear boxes
Granici – Osnove projektiranja – Dio 3-7: Granična stanja
i dokaz sigurnosti za strojeve – Zupčanici i zupčasti
prijenosnici

HZN/TO 530, Čelična užad, lanci, dizalične kuke, trake, omče i pribor

prEN 13411-4 en
Terminations for steel wire ropes – Safety – Part 4: Metal and
resin socketing
Završetci čeličnih užadi – Sigurnost – 4. dio: Metalni i plastični
zaliveni završetci

HZN/TO 531, Plastika i guma

prEN ISO 75-1:2019 en
Plastics – Determination of temperature of deflection under
load – Part 1: General test method (ISO/DIS 75-1:2019)
Plastika – Određivanje temperature postojanosti oblika
pod opterećenjem – 1. dio: Opća metoda ispitivanja
(ISO/DIS 75-1:2019)

prEN ISO 1403 en
Rubber hoses, textile-reinforced, for general-purpose water
applications – Specification (ISO/DIS 1403:2019)
Gumena crijeva ojačana tekstilom opće namjene za vodu
– Specifikacija (ISO/DIS 1403:2019)

prEN ISO 4577 en
Plastics – Polypropylene and propylene-copolymers
– Determination of thermal oxidative stability in air – Oven
method (ISO/FDIS 4577:2019)
Plastika – Polipropilen i kopolimeri polipropilena
– Određivanje termooksidacijske postojanosti u zraku
– Metoda u peći (ISO/FDIS 4577:2019)

prEN ISO 19064-2 en
Plastics – Styrene-acrylonitrile (SAN) moulding and extrusion
materials – Part 2: Preparation of test specimens and
determination of properties (ISO/DIS 19064-2:2019)
Plastika – Stiren/akrilonitrili (SAN) prešani i ekstrudirani
materijali – 2. dio: Priprema ispitaka i određivanje svojstava
(ISO/DIS 19064-2:2019)

- prEN ISO 19066-2 en
Plastics – Methyl methacrylate-acrylonitrile-butadiene-styrene (MABS) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/DIS 19066-2:2019)
Plastika – Metil-metakrilat/akrilonitril/butadien/stirenski (MABS) prešani i ekstrudirani materijali – 2. dio: Priprava ispitaka i određivanje njihovih svojstava (ISO/DIS 19066-2:2019)
- prEN ISO 21970-1 en
Plastics – Polyketone (PK) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/FDIS 21970-1:2019)
Plastika – Poliketonski (PK) materijali za kalupljenje i ekstruziju – 1. dio: Sustav označavanja i osnova specifikacija (ISO/FDIS 21970-1:2019)
- prEN ISO 21970-2 en
Plastics – Polyketone (PK) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/FDIS 21970-2:2019)
Plastika – Poliketonski (PK) materijali za kalupljenje i ekstruziju – 2. dio: Priprema ispitaka i određivanje svojstava (ISO/FDIS 21970-2:2019)
- prEN ISO 24022-1 en
Plastics – Polystyrene (PS) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/DIS 24022-1:2019)
Plastika – Polistirenski (PS) prešani i ekstrudirani materijali – 1. dio: Sustav označavanja i osnove za specifikacije (ISO/DIS 24022-1:2019)
- prEN ISO 24022-2 en
Plastics – Polystyrene (PS) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/DIS 24022-2:2019)
Plastika – Polistirenski (PS) prešani i ekstrudirani materijali – 2. dio: Priprava ispitaka i određivanje svojstava (ISO/DIS 24022-2:2019)
- prEN ISO 24023-1 en
Plastics – Plasticized poly(vinyl chloride) (PVC-P) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/DIS 24023-1:2019)
Plastika – Omekšani poli(vinil-kloridni) (PVC-P) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO/DIS 24023-1:2019)
- prEN ISO 24023-2 en
Plastics – Plasticized poly(vinyl chloride) (PVC-P) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/DIS 24023-2:2019)
Plastika – Omekšani poli(vinil-kloridni) (PVC-P) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprava ispitaka i određivanje svojstava (ISO/DIS 24023-2:2019)
- prEN ISO 24024-1 en
Plastics – Homopolymer and copolymer resins of vinyl chloride – Part 1: Designation system and basis for specifications (ISO/DIS 24024-1:2019)
Plastika – Homopolimerne i kopolimerne smole vinil-klorida – 1. dio: Sustav označavanja i osnova za specifikacije (ISO/DIS 24024-1:2019)
- prEN ISO 24024-2 en
Plastics – Homopolymer and copolymer resins of vinyl chloride – Part 2: Preparation of test samples and determination of properties (ISO/DIS 24024-2:2019)
Plastika – Homopolimerne i kopolimerne smole vinil-klorida – 2. dio: Priprema ispitaka i određivanje svojstava (ISO/DIS 24024-2:2019)
- prEN ISO 24025-1 en
Plastics – Sulfone polymer moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/DIS 24025-1:2019)
Plastika – Sulfonski polimerni materijali za injekcijsko prešanje i ekstrudiranje – 1. dio: Sustav označavanja i osnova za specifikacije (ISO/DIS 24025-1:2019)
- prEN ISO 24025-2 en
Plastics – Sulfone polymer moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/DIS 24025-2:2019)
Plastika – Sulfonski polimerni materijali za injekcijsko prešanje i ekstrudiranje – 2. dio: Priprema ispitnih uzoraka i određivanje svojstava (ISO/DIS 24025-2:2019)
- prEN ISO 24026-1 en
Plastics – Poly(methyl methacrylate) (PMMA) moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO/DIS 24026-1:2019)
Plastika – Poli(metil-metakrilatni) (PMMA) materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO/DIS 24026-1:2019)
- prEN ISO 24026-2 en
Plastics – Poly(methyl methacrylate) (PMMA) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO/DIS 24026-2:2019)
Plastika – Poli(metil-metakrilatni) (PMMA) materijali za kalupljenje i ekstrudiranje – 2. dio: Priprema ispitaka i određivanje svojstava (ISO/DIS 24026-2:2019)
- HZN/TO 535, Agregati**
- prEN 933-2 en
Tests for geometrical properties of aggregates – Part 2: Determination of particle size distribution – Test sieves, nominal size of apertures
Ispitivanje geometrijskih svojstava agregata – 2. dio: Određivanje granulometrijskog sastava – Ispitna sita, nazivne veličine otvora
- HZN/TO 536, Vrata, prozori i staklo u graditeljstvu**
- prEN 15684 en
Building hardware – Mechatronic cylinders – Requirements and test methods
Građevni okovi – Mehatronički cilindri – Zahtjevi i metode ispitivanja
- prEN 16361 en
Power operated pedestrian doorsets – Product standard, performance characteristics – Pedestrian doorsets, other than swing type, initially designed for installation with power operation
Strojno pogonjena vrata za pješake – Norma za proizvod, izvedbene značajke – Vrata za pješake, osim mimokretnih tipova, koja su u osnovi projektirana za ugradnju sa strojnim pogonom
- prEN 17372 en
Power operated pedestrian swing door drives with self closing function – Requirements and test methods
- HZN/TO 541, Sustavi grijanja, ventilacije i klimatizacije u građevinama**
- prEN ISO 12759-5 en
Fans – Efficiency classification for fans – Part 5: Jet fans (ISO/DIS 12759-5:2019)
Ventilatori – Razredba učinkovitosti ventilatora – 5. dio: Impulsni ventilatori (ISO/DIS 12759-5:2019)
- HZN/TO 543, Poštanske usluge**
- prEN 13850 en
Postal services – Quality of services – Measurement of the transit time of end-to-end services for single piece priority mail and first class mail
Poštanske usluge – Kvaliteta usluga – Mjerenje vremena prijenosa pojedinačne prioritetne pošiljke od prijama do uručenja
- HZN/TO 544, Strojni elementi**
- prEN ISO 2702 en
Fasteners – Heat-treated steel tapping screws – Mechanical and physical properties (ISO/DIS 2702:2019)
Spojni elementi – Toplinski obrađeni čelični vijci za lim – Mehanička i fizikalna svojstva (ISO/DIS 2702:2019)
- HZN/TO 550, Opskrba vodom**
- prEN 15096 en
Devices to prevent pollution by backflow of potable water – Hose Union anti-vacuum valves – DN 15 to DN 25 inclusive Family H, type B and type D – General technical specification
Uređaji za sprječavanje onečišćenja vode za piće zbog povratnog toka – Protuvakuumski ventili sa spojnicom za crijeva – DN 15 do DN 25 uključujući skupine H, tip B i tip D – Opća tehnička specifikacija

HZN/TO 551, *Gradnja*

- prEN ISO 23387 en
Building Information Modelling (BIM) – Data templates for construction objects used in the life cycle of any built asset – Concepts and principles (ISO/DIS 23387:2019)

HZN/TO 555, *Medicinski proizvodi*

- prEN ISO 13408-6 en
Aseptic processing of health care products – Part 6: Isolator systems (ISO/DIS 13408-6:2019)
Aseptički postupci za proizvode zdravstvene zaštite – 6. dio: Sustavi izolacije (ISO/DIS 13408-6:2019)
- prEN ISO 17511 en
In vitro diagnostic medical devices – Requirements for establishing metrological traceability of values assigned to calibrators, trueness control materials and human samples (ISO/DIS 17511:2019)
- prEN ISO 20417 en
Medical Devices – Information to be provided by the manufacturer (ISO/DIS 20417:2019)

HZN/TO 557, *Zaštitna odjeća*

- prEN 14404-1 en
Personal protective equipment – Knee protectors for work in the kneeling position – Part 1: Test methods
- prEN 14404-2 en
Personal protective equipment – Knee protectors for work in the kneeling position – Part 2: Requirements for wearable knee protectors (type 1)
- prEN 14404-3 en
Personal protective equipment – Knee protectors for work in the kneeling position – Part 3: Requirements for the combination of knee pads and garments (type 2)
- prEN 14404-4 en
Personal protective equipment – Knee protectors for work in the kneeling position – Part 4: Requirements for the combination of interoperable knee pads and garments (type 2)
- prEN 14404-5 en
Personal protective equipment – Knee protectors for work in the kneeling position – Part 5: Requirements for knee mats (type 3)
- prEN 14404-6 en
Personal protective equipment – Knee protectors for work in the kneeling position – Part 6: Requirements for kneeling systems (type 4)
- prEN 17353 en
Protective clothing – Visibility clothing for non-professional use – Test methods and requirements
- EN ISO 18640-1:2018/prA1 en
Protective clothing for firefighters – Physiological impact – Part 1: Measurement of coupled heat and moisture transfer with the sweating torso (ISO 18640-1:2018/DAMd 1:2019)
Zaštitna odjeća za vatrogasce – Fiziološki utjecaj – 1. dio: Mjerenje prolaza topline i vlage pomoću uređaja koji simulira torzo koji se znoji (ISO 18640-1:2018/DAMd 1:2019)
- EN ISO 18640-2:2018/prA1 en
Protective clothing for firefighters – Physiological impact – Part 2: Determination of physiological heat load caused by protective clothing worn by firefighters (ISO 18640-2:2018/DAMd 1:2019)
Zaštitna odjeća za vatrogasce – Fiziološki utjecaj – 2. dio: Određivanje fiziološkoga toplinskog opterećenja uzrokovanog zaštitnom odjećom koju nose vatrogasci (ISO 18640-2:2018/DAMd 1:2019)

HZN/TO 561, *Kotlovi, posude pod tlakom, cjevovodi i plinske boce*

- EN 1440:2016+A1:2018/prA2:2019 en
LPG equipment and accessories – Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders – Periodic inspection
Oprema i pribor za UNP – Prenosive, ponovno punjive čelične boce za ukapljeni naftni plin (UNP) uobičajeno zavarene i tvrdo lemljene – Periodični pregled
- EN 13480-2:2017/prA7 en

Metallic industrial piping – Part 2: Materials
Metalni industrijski cjevovodi – 2. dio: Materijali

- EN 13480-3:2017/prA1 en
Metallic industrial piping – Part 3: Design and calculation
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun
- EN 13480-3:2017/prA2 en
Metallic industrial piping – Part 3: Design and calculation
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun
- EN 13480-3:2017/prA3 en
Metallic industrial piping – Part 3: Design and calculation
Metalni industrijski cjevovodi – 3. dio: Projektiranje i proračun
- EN 16728:2016+A1:2018/prA2:2019 en
LPG equipment and accessories – Transportable refillable LPG cylinders other than traditional welded and brazed steel cylinders – Periodic inspection
Oprema i pribor za UNP – Prenosive, ponovno punjive boce za UNP osim zavarenih i tvrdo lemljenih čeličnih boca – Periodični pregled

HZN/TO 571, *Sport, igrališta i ostali rekreacijski sadržaji i oprema*

- prEN 914 en
Gymnastic equipment – Parallel bars and combination asymmetric/parallel bars – Requirements and test methods including safety
Gimnastička oprema – Usporedne i kombinirane ruče – Zahtjevi i metode ispitivanja uključujući sigurnosti
- EN 926-2:2013/prA1 en
Paragliding equipment – Paragliders – Part 2: Requirements and test methods for classifying flight safety characteristics
Oprema za paraglajding – Paragljaderi – 2. dio: Zahtjevi i metode ispitivanja za klasificiranje sigurnosnih karakteristika leta
- prEN 1176-7 en
Playground equipment and surfacing – Part 7: Guidance on installation, inspection, maintenance and operation
Oprema i podloge za igrališta – 7. dio: Upute za postavljanje, pregled, održavanje i uporabu

HZN/TO E9, *Električna oprema za željeznicu*

- EN 50128:2011/prAA:2019 en
Railway applications – Communication, signalling and processing systems – Software for railway control and protection systems
Željeznički sustav – Komunikacijska i signalna tehnika i sustavi obrade podataka – Softver za željezničke upravljačke i kontrolne sustave

HZN/TO E15, *Čvrsti elektrotehnički izolacijski materijali*

- prEN IEC 60667-1:2019 en
Vulcanized fibre for electrical purposes – Part 1: Definitions and general requirements (IEC 60667-1:201X)
Vulkanizirana vlakna za primjenu u elektrotehnici – 1. dio: Definicije i opći zahtjevi (IEC 60667-1:201X)
- prEN IEC 60667-2:2019 en
Vulcanized fibre for electrical purposes – Part 2: Methods of test (IEC 60667-2:201X)
Vulkanizirana vlakna za primjenu u elektrotehnici – 2. dio: Metode ispitivanja (IEC 60667-2:201X)
- prEN IEC 60667-3-1:2019 en
Vulcanized fibre for electrical purposes – Part 3: Specification for individual materials – Sheet 1: Flat sheets (IEC 60667-3-1:201X)
Vulkanizirana vlakna za primjenu u elektrotehnici – 3. dio: Specifikacija za pojedinačne materijale – 1. list: Ravni listovi (IEC 60667-3-1:201X)

HZN/TO E20, *Električni kabeli*

- prEN IEC 61238-1-3:2019 en
Compression and mechanical connectors for power cables – Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV (Um = 1,2 kV) up to 36 kV (Um = 42 kV) tested on non-insulated conductors (IEC 61238-1-3:2018)
- prEN IEC 61238-1-3:2019/prAA:2019 en

Compression and mechanical connectors for power cables – Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV (Um = 1,2 kV) up to 36 kV (Um = 42 kV) tested on non-insulated conductors

HZN/TO E31, Eksplozivne atmosfere

prEN IEC 60079-25:2019 en
Explosive atmospheres – Part 25: Intrinsically safe electrical systems (IEC 60079-25:201X)
Eksplozivne atmosfere – 25. dio: Samosigurni električni sustavi (IEC 60079-25:201X)

HZN/TO E34, Žarulje, svjetiljke i pripadna oprema

prEN IEC 62868-2-1:2019 en
Organic light emitting diode (OLED) light sources for general lighting – Safety – Part 2-1: Particular requirements for semi-integrated OLED modules (IEC 62868-2-1:201X)

HZN/TO E44, Elektrotehnička sigurnost strojeva

EN 61496-1:2013/prA1:2019 en
Safety of machinery – Electro-sensitive protective equipment – Part 1: General requirements and tests (IEC 61496-1:2012/am1:201X)
Sigurnost strojeva – Elektroosjetljiva zaštitna oprema – 1. dio: Opći zahtjevi i ispitivanja (IEC 61496-1:2012/am1:201X)

EN 61496-2:2013/prA1:2019 en
Safety of machinery – Electro-sensitive protective equipment – Part 2: Particular requirements for equipment using active opto-electronic protective devices (AOPDs) (IEC 61496-2:2013/am1:201X)
Sigurnost strojeva – Elektroosjetljiva zaštitna oprema – 2. dio: Posebni zahtjevi za opremu koja upotrebljava aktivne optoelektroničke zaštitne naprave (IEC 61496-2:2013/am1:201X)

HZN/TO E57, Upravljanje energetske sustavom i pridružene komunikacije

EN 61850-5:2013/prA1:2019 en
Communication networks and systems for power utility automation – Part 5: Communication requirements for functions and device models (IEC 61850-5:2013/am1:201X)
Komunikacijske mreže i sustavi za automatizaciju u elektroprivredi – 5. dio: Komunikacijski zahtjevi na modele funkcija i uređaja (IEC 61850-5:2013/am1:201X)

EN 62351-3:2014/prA2:2019 en
Power systems management and associated information exchange – Data and communications security – Part 3: Communication network and system security – Profiles including TCP/IP (IEC 62351-3:2014/am2:201X)
Upravljanje energetske sustavima i povezana razmjena podataka – Sigurnost podataka i komunikacija – 3. dio: Sigurnost komunikacijske mreže i sustava – Profili koji uključuju TCP/IP (IEC 62351-3:2014/am2:201X)

prEN IEC 62351-8:2019 en
Power systems management and associated information exchange – Data and communications security – Part 8: Role-based access control (IEC 62351-8:201X)

HZN/TO E65, Mjerenje, vođenje i automatizacija industrijskih procesa

prEN 50212 en
Connectors for thermoelectric sensors
Konektori za termoelektrična osjetila

prEN 50325-1:2019 en
Industrial communications subsystem based on ISO 11898 (CAN) for controller-device interfaces – Part 1: General requirements
Industrijski komunikacijski podsustav utemeljen na ISO 11898 (CAN) za sučelja prema regulacijskomu uređaju – 1. dio: Opći zahtjevi

HZN/TO E76, Sigurnost optičkoga zračenja i laserska oprema

EN 60825-1:2014/prAA en
Safety of laser products – Part 1: Equipment classification and requirements
Sigurnost laserskih proizvoda – 1. dio: Klasifikacija opreme i zahtjevi

HZN/TO E100, Audio, video i multimedijski sustavi te njihova oprema

prEN IEC 60268-16:2019 en
Sound system equipment – Part 16: Objective rating of speech intelligibility by speech transmission index (IEC 60268-16:201X)
Oprema audiosustava – 16. dio: Objektivno vrednovanje razumljivosti govora s pomoću indeksa razumljivosti govora (IEC 60268-16:201X)

prEN IEC 60728-11:2019 en
Cable networks for television signals, sound signals and interactive services – Part 11: Safety (TA 5) (IEC 60728-11:201X)
Kabelske mreže za televizijske signale, zvučne signale i usluge uzajamnog djelovanja – 11. dio: Sigurnost (TA 5) (IEC 60728-11:201X)

HZN/TO E500, Elektromagnetska kompatibilnost u elektrotehnici i telekomunikacijama

EN 50561-1:2013/FprAA:2019 en
Powerline communication apparatus used in low voltage installations – Radio disturbance characteristics – Limits and methods of measurement – Part 1: Apparatus for in-home use
Uređaji za komunikaciju preko energetske vodova koji se upotrebljavaju u niskonaponskim instalacijama – Karakteristike radio smetnji – Granice i metode mjerenja – 1. dio: Uređaji za kućnu upotrebu

EN 61000-4-25:2002/prA2:2019 en
Amendment 2: Electromagnetic compatibility (EMC) – Part 4-25: Testing and measurement techniques – HEMP immunity test methods for equipment and systems (IEC 61000-4-25:2001/am2:201X)
Amendment 2: Elektromagnetska kompatibilnost (EMC) – Dio 4-25: Ispitne i mjerne tehnike – Metode ispitivanja otpornosti opreme i sustava izloženih HEMP-u (IEC 61000-4-25:2001/am2:201X)

HZN/TU A1, Usluge, proizvodi za kućanstvo i slobodno vrijeme 1

prEN 17368 en
Laminate floor coverings – Determination of impact resistance with small ball

prEN 17371-1 en
Provision of services – Part 1: Service procurement – Guidance for the assessment of the capacity of service providers and evaluation of service proposals

prEN 17371-2 en
Provision of services – Part 2: Services Contracts – Guidance for the design and structure of contracts

prEN 17371-3 en
Provision of services – Part 3: Management of Performance Measurement – Guidance on the mechanism to measure performance as part of service contracts

prEN 17375 en
Electronic cigarettes and e-liquids – Reference e-liquids

HZN/TU M1, Metalni materijali 1

prEN ISO 10070 en
Metallic powders – Determination of envelope-specific surface area from measurements of the permeability to air of a powder bed under steady-state flow conditions (ISO/DIS 10070:2019)
Metalni prahovi – Određivanje specifične površine mjerenjem propusnosti zraka kroz slojeve praha u uvjetima stacionarnog protoka (ISO/DIS 10070:2019)

HZN/TU S1, Zdravlje, okoliš i medicinska oprema 1

prEN ISO 1942 en
Dentistry – Vocabulary (ISO/DIS 1942:2019)
Stomatologija – Terminološki rječnik (ISO/DIS 1942:2019)

prEN ISO 3630-3 en
Dentistry – Endodontic instruments – Part 3: Compactors: pluggers and spreaders (ISO/DIS 3630-3:2019)
Stomatologija – Endodontski instrumenti – 3. dio: Kompaktori: nabijači i proširivači (ISO/DIS 3630-3:2019)

- prEN ISO 3630-5 en
Dentistry – Endodontic instruments – Part 5: Shaping and cleaning instruments (ISO/DIS 3630-5:2019)
Stomatologija – Endodontski instrumenti – 5. dio: Instrumenti za oblikovanje i čišćenje (ISO/DIS 3630-5:2019)
- prEN ISO 15098 en
Dentistry – Dental tweezers (ISO/DIS 15098:2019)
- prEN ISO 20127 en
Dentistry – Physical properties of powered toothbrushes (ISO/DIS 20127:2019)
- prEN ISO 22598 en
Dentistry – Colour tabs for intraoral tooth colour determination (ISO/DIS 22598:2019)
- prEN ISO 23325 en
Dentistry – Corrosion resistance of dental amalgam (ISO/DIS 23325:2019)

HZN/TU T1, *Prijevoz, rukovanje materijalima i pakiranje 1*

- FprEN 3155-065 en
Aerospace series – Electrical contacts used in elements of connection – Part 065: Contacts, electrical, male, type A, crimp, class S, size 8 – Product standard
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 065: Kontakti, električni, muški, tip A, za krimpovanje, razreda S, veličina 8 – Norma za proizvod
- FprEN 3155-070 en
Aerospace series – Electrical contacts used in elements of connection – Part 070: Contacts, electrical, male, type A, crimp, class S – Product standard
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 070: Kontakti, električni, muški, tip A, za krimpovanje, razreda S – Norma za proizvod
- FprEN 3155-071 en
Aerospace series – Electrical contacts used in elements of connection – Part 071: Contacts, electrical, female, type A, crimp, class S – Product standard
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 071: Kontakti, električni, ženski, tip A, za krimpovanje, razreda S – Norma za proizvod
- FprEN 3155-079 en
Aerospace series – Electrical contacts used in elements of connection – Part 079: Contacts size 22 for EN 2997, electrical, female, type A, crimp, class S – Product standard
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 079: Kontakti veličine 22 za normu EN 2997, električni, ženski, tip A, za krimpovanje, razreda S – Norma za proizvod
- FprEN 3155-083 en
Aerospace series – Electrical contacts used in elements of connection – Part 083: Contact, electrical, female, type A, crimp, class S, size 8 – Product standard
Zrakoplovstvo – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – Dio 083: Kontakti, električni, ženski, tip A, za krimpovanje, razreda S, veličina 8 – Norma za proizvod
- FprEN 3740 en
Aerospace series – Bolts, shouldered, thin hexagonal head, close tolerance shank, short thread, in titanium alloy, anodized, MoS2 coated – Classification: 1 100 MPa (at ambient temperature)/315 °C (FprEN 3740)
Zrakoplovstvo – Matice, s jačim strukom, tanke šesterokutne glave, struk s uskom tolerancijom, kratki navoj, od legure titana, anodizirani, podmazani s MoS2 – Klasifikacija: 1100 MPa (pri temperaturi okoline)/315 °C
- prEN 12312-5 en
Aircraft ground support equipment – Specific requirements – Part 5: Aircraft fuelling equipment
Oprema za zemaljsku podršku zrakoplovu – Posebni zahtjevi – 5. dio: Zrakoplovna oprema za točenje goriva

HZN/TU U1, *Opća elektrotehnika 1*

- prEN IEC 60695-4:2019 en
Fire hazard testing – Part 4: Terminology concerning fire tests for electrotechnical products (IEC 60695-4:201X)
Ispitivanje opasnosti od požara – 4. dio: Terminologija ispitivanja požara za elektrotehničke proizvode (IEC 60695-4:201X)

HZN/TU V1, *Elektronika 1*

- prEN IEC 61969-1:2019 en
Mechanical structures for electrical and electronic equipment – Outdoor enclosures – Part 1: Design guidelines (IEC 61969-1:201X)
- prEN IEC 61969-3:2019 en
Mechanical structures for electrical and electronic equipment – Outdoor enclosures – Part 3: Environmental requirements, tests and safety aspects (IEC 61969-3:201X)
- prEN IEC 62025-2:2019 en
High frequency inductive components – Non-electrical characteristics and measuring methods – Part 2: Test methods for non-electrical characteristics (IEC 62025-2:201X)
- prEN IEC 62878-2-5:2019 en
Device embedded substrate – Part 2-5: Implementation of a 3D data format for device embedded substrate (IEC 62878-2-5:201X)
- prEN IEC 62966-2:2019 en
Mechanical structures for electrical and electronic equipment – Aisle containment for IT cabinets – Part 2: Details of air flow, air separation and air cooling requirements (IEC 62966-2:201X)
- prEN IEC 63138-2:2019 en
Multi radio frequency channel connector – Part 2: Sectional specification for MQ4 series circular connector (IEC 63138-2:201X)
- prEN IEC 63171-1:2019 en
Connectors for electrical and electronic components – Product requirements – Part 1: Detail specification for 2-way, shielded or unshielded, free and fixed connectors: mechanical mating information, pin assignment and additional requirements for TYPE 1 / Copper LC Style (IEC 63171-1:201X)

HZN/TU W1, *Energetska elektrotehnika 1*

- prEN IEC 62933-5-2:2019 en
Electrical energy storage (EES) systems – Part 5-2: Safety requirements for grid integrated EES systems – Electrochemical based systems (IEC 62933-5-2:201X)
- prEN IEC 63086:2019 en
Household and similar electrical air cleaning appliances – Measurement of performance – Part 1: General requirements (IEC 63086:201X)

1.4 *Povučene hrvatske norme*

Na prijedlog tehničkog odbora ravnatelj Hrvatskoga zavoda za norme donosi odluku o povlačenju hrvatske norme kada je donesena nova hrvatska norma ili kada je postojeća hrvatska norma postala neprimjenjiva.

Kada je koje područje uređeno propisima i neki od propisa (pravilnik, naredba, naputak) upućuje na norme koje su povučene, one se primjenjuju silom tih propisa i bit će, do izmjene propisa ili izradbe novih, na raspolaganju u Normoteci HZN-a.

HZN/TO 8, *Brodogradnja*

- HRN ISO 3935:2001 en
Brodogradnja – Unutrašnja plovidba – Protupožarni sustav s vodom – Tlakovi (ISO 3935:1977)
Shipbuilding – Inland navigation – Fire-fighting water system – Pressures (ISO 3935:1977)
- bez zamjene
- HRN EN ISO 10087:2008 en
Mala plovila – Prepoznavanje trupa – Sustav kodiranja (ISO 10087:2006; EN ISO 10087:2006)
Small craft – Craft identification – Coding system (ISO 10087:2006; EN ISO 10087:2006)
- zamijenjena s: HRN EN ISO 10087:2019
- HRN EN 14504:2016 en
Plovni objekti unutarnje plovidbe – Plutajuća pristaništa i plutajući mostovi na unutarnjim vodama – Zahtjevi, ispitivanja (EN 14504:2016)
Inland navigation vessels – Floating landing stages and floating equipment on inland waters – Requirements, tests (EN 14504:2016)
- zamijenjena s: HRN EN 14504:2019

HZN/TO 21, Protupožarna i vatrogasna oprema

HRN EN 15004-1:2008 en
Stabilni protupožarni sustavi – Sustavi za gašenje plinova
– 1. dio: Opći zahtjevi za planiranje i ugradnju
(ISO 14520-1:2006, MOD; EN 15004-1:2008)
Fixed firefighting systems – Gas extinguishing systems
– Part 1: Design, installation and maintenance
(ISO 14520-1:2006, MOD; EN 15004-1:2008)
- zamijenjena s: HRN EN 15004-1:2019

HZN/TO 25, Ljevarstvo

HRN EN 1562:2013 en
Ljevarstvo – Temporni lijevovi (EN 1562:2012)
Founding – Malleable cast irons (EN 1562:2012)
- zamijenjena s: HRN EN 1562:2019

HRN EN 10283:2011 en
Čelični odljevci otporni na koroziju (EN 10283:2010)
Corrosion resistant steel castings (EN 10283:2010)
- zamijenjena s: HRN EN 10283:2019

HZN/TO 43, Akustika

HRN EN ISO 3740:2001 en
Akustika – Određivanje razina zvučne snage izvora buke
– Smjernice za uporabu temeljnih norma (ISO 3740:2000;
EN ISO 3740:2000)
Acoustics – Determination of sound power levels of noise
sources – Guidelines for the use of basic standards
(ISO 3740:2000; EN ISO 3740:2000)
- zamijenjena s: HRN EN ISO 3740:2019

HZN/TO 44, Zavarivanje i srodni postupci

HRN EN ISO 2063-1:2017 en
Toplinsko nastrcavanje – Cink, aluminij i njihove legure
– 1. dio: Planiranje sustava zaštite od korozije – Pitanja
oblikovanja i zahtjevi za kvalitetu sustava zaštite od korozije
(ISO 2063-1:2017; EN ISO 2063-1:2017)
Thermal spraying – Zinc, aluminium and their alloys – Part 1:
Design considerations and quality requirements for corrosion
protection systems (ISO 2063-1:2017; EN ISO 2063-1:2017)
- zamijenjena s: HRN EN ISO 2063-1:2019

HRN EN ISO 14731:2008 en
Kordinacija zavarivanja – Zadaci i odgovornosti (ISO 14731:2006;
EN ISO 14731:2006)
Welding coordination – Tasks and responsibilities (ISO 14731:2006;
EN ISO 14731:2006)
- zamijenjena s: HRN EN ISO 14731:2019

HRN EN ISO 17677-1:2010 en,fr,de
Elektrootporno zavarivanje – Terminološki rječnik – 1. dio:
Točkasto, bradavičasto i šavno zavarivanje (ISO 17677-1:2009;
EN ISO 17677-1:2009)
Resistance welding – Vocabulary – Part 1: Spot, projection and
seam welding (ISO 17677-1:2009; EN ISO 17677-1:2009)
- zamijenjena s: HRN EN ISO 17677-1:2019

HZN/TO 135, Nerazorna ispitivanja

HRN EN 16016-4:2011 en
Nerazorno ispitivanje – Metode zračenja – Računalna
tomografija – 4. dio: Kvalifikacija (EN 16016-4:2011)
Non destructive testing – Radiation methods – Computed
tomography – Part 4: Qualification (EN 16016-4:2011)
- zamijenjena s: HRN EN ISO 15708-4:2019

HZN/TO 147, Kvaliteta vode

HRN EN ISO 10704:2015 en
Kvaliteta vode – Mjerenje ukupne alfa i ukupne beta
aktivnosti u slatkoj vodi – Metoda depozicije tankog izvora
(ISO 10704:2009; EN ISO 10704:2015)
Water quality – Measurement of gross alpha and gross beta
activity in non-saline water – Thin source deposit method
(ISO 10704:2009; EN ISO 10704:2015)
- zamijenjena s: HRN EN ISO 10704:2019

HZN/TO 190, Kvaliteta tla

HRN ISO 15799:2011 en
Kvaliteta tla – Upute za ekotoksikološku karakterizaciju tala i
zemljišni materijali (ISO 15799:2003)
Soil quality – Guidance on the ecotoxicological characterization
of soils and soil materials (ISO 15799:2003)
- zamijenjena s: HRN ISO 15799:2019

HZN/TO 211, Geoinformacije/Geomatika

HRN EN ISO 19112:2005 en
Geoinformacije – Prostorno određivanje geografskim
identifikatorima (ISO 19112:2003; EN ISO 19112:2005)
Geographic information – Spatial referencing by geographic
identifiers (ISO 19112:2003; EN ISO 19112:2005)
- zamijenjena s: HRN EN ISO 19112:2019

HRS ISO/TS 19127:2013 en
Geoinformacije – Geodetski kodovi i parametri (ISO/TS 19127:2005)
Geographic information – Geodetic codes and parameters
(ISO/TS 19127:2005)
- zamijenjena s: HRN ISO 19127:2019

HRS ISO/TS 19130:2013 en
Geoinformacije – Modeli slikovnih senzora za geopozicioniranje
(ISO/TS 19130:2010)
Geographic information – Imagery sensor models for
geopositioning (ISO/TS 19130:2010)
- zamijenjena s: HRN ISO 19130-1:2019

HRS CEN ISO/TS 19139:2011 en
Geoinformacije – Metapodaci – Implementacija XML sheme
(ISO/TS 19139:2007; CEN ISO/TS 19139:2009)
Geographic information – Metadata – XML schema
implementation (ISO/TS 19139:2007; CEN ISO/TS 19139:2009)
- zamijenjena s: HRS EN ISO/TS 19139-1:2019

HZN/TO 221, Geosintetici

HRN EN ISO 10320:2001 en
Geotekstil i proizvodi srodni s geotekstilom – Identifikacija na
gradilištu (ISO 10320:1999; EN ISO 10320:1999)
Geotextiles and geotextile-related products – Identification on
site (ISO 10320:1999; EN ISO 10320:1999)
- zamijenjena s: HRN EN ISO 10320:2019

HZN/TO 502, Plinski uređaji

HRN EN 13611:2015 en
Sigurnosni i regulirajući uređaji za plamenike i uređaje na
plinska i/ili tekuća goriva – Opći zahtjevi (EN 13611:2015)
Safety and control devices for burners and appliances
burning gaseous and/or liquid fuels – General requirements
(EN 13611:2015)
- zamijenjena s: HRN EN 13611:2019

HRN EN 13611:2015/Ispr.1:2016 en
Sigurnosni i regulirajući uređaji za plamenike i
uređaje na plinska i/ili tekuća goriva – Opći zahtjevi
(EN 13611:2015/AC:2016)
Safety and control devices for burners and appliances
burning gaseous and/or liquid fuels – General requirements
(EN 13611:2015/AC:2016)
- zamijenjena s: HRN EN 13611:2019

HZN/TO 503, Metalni materijali

HRN EN ISO 10893-6:2012 en
Nerazorno ispitivanje čeličnih cijevi – 6. dio: Radiografsko
ispitivanje šavnog zavara elektrolučno zavarenih čeličnih
cijevi radi otkrivanja nepravilnosti (ISO 10893-6:2011;
EN ISO 10893-6:2011)
Non-destructive testing of steel tubes – Part 6: Radiographic
testing of the weld seam of welded steel tubes for the detection
of imperfections (ISO 10893-6:2011; EN ISO 10893-6:2011)
- zamijenjena s: HRN EN ISO 10893-6:2019

HRN EN ISO 10893-7:2012 en
Nerazorno ispitivanje čeličnih cijevi – 7. dio: Digitalno
radiografsko ispitivanje šavnog zavara elektrolučno zavarenih
čeličnih cijevi radi otkrivanja nepravilnosti (ISO 10893-7:2011;
EN ISO 10893-7:2011)
Non-destructive testing of steel tubes – Part 7: Digital
radiographic testing of the weld seam of welded steel
tubes for the detection of imperfections (ISO 10893-7:2011;
EN ISO 10893-7:2011)
- zamijenjena s: HRN EN ISO 10893-7:2019

HRN EN 14726:2008 en
Aluminij i aluminijeve legure – Kemijska analiza – Smjernice
za optičku emisijsku spektrometrijsku analizu na načelu iskre
(EN 14726:2005)
Aluminium and aluminium alloys – Chemical analysis
– Guideline for spark optical emission spectrometric analysis
(EN 14726:2005)
- zamijenjena s: HRN EN 14726:2019

HZN/TO 528, *Oprema za željeznice*

- HRN EN 13674-4:2010 en
Željeznički sustav – Željeznički gornji ustroj – Tračnica – 4. dio: Vignoleove željezničke tračnice mase od 27 kg/m do 46 kg/m, isključujući 46 kg/m (EN 13674-4:2006+A1:2009)
Railway applications – Track – Rail – Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m (EN 13674-4:2006+A1:2009)
- zamijenjena s: HRN EN 13674-4:2019
- HRN EN 13848-1:2008 en
Željeznički sustav – Željeznički gornji ustroj – Kvaliteta kolosiječne geometrije – 1. dio: Definiranje kolosiječne geometrije (EN 13848-1:2003+A1:2008)
Railway applications – Track – Track geometry quality – Part 1: Characterisation of track geometry (EN 13848-1:2003+A1:2008)
- zamijenjena s: HRN EN 13848-1:2019
- HRN EN 14811:2010 en
Željeznički sustav – Željeznički gornji ustroj – Tračnice za posebne namjene – Žljebaste i pridružene konstrukcije (EN 14811:2006+A1:2009)
Railway applications – Track – Special purpose rail – Grooved and associated construction (EN 14811:2006+A1:2009)
- zamijenjena s: HRN EN 14811:2019
- HRN EN 15329:2015 en
Željeznički sustav – Kočenje – Nosač kočnih umetaka i klin za kočne umetke željezničkih vozila (EN 15329:2015)
Railway applications – Braking – Brake block holder and brake shoe key for railway vehicles (EN 15329:2015)
- zamijenjena s: HRN EN 15329:2019

HZN/TO 531, *Plastika i guma*

- HRN EN ISO 2580-2:2008 en
Plastika – Akrilonitril/butadien/stirenski (ABS) prešani i ekstrudirani materijali – 2. dio: Priprava ispitaka i određivanje svojstava (ISO 2580-2:2003; EN ISO 2580-2:2003)
Plastics – Acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 2580-2:2003; EN ISO 2580-2:2003)
- zamijenjena s: HRN EN ISO 19062-2:2019
- HRN EN ISO 6402-2:2004 en
Plastika – Akrilonitril/stiren/akrilat (ASA), akrilonitril/(etilen-propilen-dien)/stiren (AEPDS) i akrilonitril/(klorirani polietilen)/stiren (ACS) prešani i ekstrudirani materijali – 2. dio: Priprema ispitaka i određivanje svojstava (ISO 6402-2:2003; EN ISO 6402-2:2003)
Plastics – Acrylonitrile-styrene-acrylate (ASA), acrylonitrile-(ethylene-propylene-diene)-styrene (AEPDS) and acrylonitrile-(chlorinated polyethylene)-styrene (ACS) moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 6402-2:2003; EN ISO 6402-2:2003)
- zamijenjena s: HRN EN ISO 19065-2:2019
- HRN EN ISO 14663-1:2008 en
Plastika – Etilen/vinil-alkoholni (EVOH) kopolimerni materijali za kalupljenje i ekstrudiranje – 1. dio: Sustav označavanja i osnove za specifikacije (ISO 14663-1:1999; EN ISO 14663-1:2006)
Plastics – Ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials – Part 1: Designation system and basis for specifications (ISO 14663-1:1999; EN ISO 14663-1:2006)
- zamijenjena s: HRN EN ISO 21309-1:2019
- HRN EN ISO 14663-2:2008 en
Plastika – Etilen/vinil-alkoholni (EVOH) kopolimerni materijali za kalupljenje i ekstrudiranje – 2. dio: Priprava ispitaka i određivanje svojstava (ISO 14663-2:1999; EN ISO 14663-2:2006)
Plastics – Ethylene/vinyl alcohol (EVOH) copolymer moulding and extrusion materials – Part 2: Preparation of test specimens and determination of properties (ISO 14663-2:1999; EN ISO 14663-2:2006)
- zamijenjena s: HRN EN ISO 21309-2:2019
- HRI CEN/TR 15932:2010 en
Plastika – Preporuka za nazivlje i karakterizaciju biopolimera i bioplastike (CEN/TR 15932:2010)
Plastics – Recommendation for terminology and characterisation of biopolymers and bioplastics (CEN/TR 15932:2010)
- zamijenjena s: HRN EN 17228:2019

- HRS CEN/TS 16137:2011 en
Plastika – Određivanje sadržaja ugljika biološkog podrijetla (CEN/TS 16137:2011)
Plastics – Determination of bio-based carbon content (CEN/TS 16137:2011)
- zamijenjena s: HRN EN 17228:2019
- HRS CEN/TS 16295:2012 en
Plastika – Izjava o sadržaju ugljika biološkog podrijetla (CEN/TS 16295:2012)
Plastics – Declaration of the bio-based carbon content (CEN/TS 16295:2012)
- zamijenjena s: HRN EN 17228:2019
- HRS CEN/TS 16398:2012 en
Plastika – Predložak za izvještavanje i prijenos podataka o ugljiku biološkog podrijetla i mogućnosti regeneracije biopolimera i bioplastike – Sigurnosni tehnički list (CEN/TS 16398:2012)
Plastics – Template for reporting and communication of bio-based carbon content and recovery options of biopolymers and bioplastics – Data sheet (CEN/TS 16398:2012)
- zamijenjena s: HRN EN 17228:2019

HZN/TO 533, *Kolničke konstrukcije*

- HRN EN ISO 13473-1:2004 en
Karakteriziranje teksture kolnika uporabom profila površine – 1. dio: Određivanje srednje dubine teksture profila (ISO 13473-1:1997; EN ISO 13473-1:2004)
Characterization of pavement texture by use of surface profiles – Part 1: Determination of Mean Profile Depth (ISO 13473-1:1997; EN ISO 13473-1:2004)
- zamijenjena s: HRN EN ISO 13473-1:2019
- HRN EN 14187-5:2004 en
Hladne brtvene mase – 5. dio: Ispitna metoda za određivanje otpornosti na hidrolizu (EN 14187-5:2003)
Cold applied joint sealants – Part 5: Test method for the determination of the resistance to hydrolysis (EN 14187-5:2003)
- zamijenjena s: HRN EN 14187-5:2019
- HRN EN 14187-7:2004 en
Hladne brtvene mase – 7. dio: Ispitna metoda za određivanje otpornosti na plamen (EN 14187-7:2003)
Cold applied joint sealants – Part 7: Test method for the determination of the resistance to flame (EN 14187-7:2003)
- zamijenjena s: HRN EN 14187-7:2019
- HRN EN 14187-9:2007 en
Hladne brtvene mase – Ispitne metode – 9. dio: Ispitivanje učinkovitosti brtvenih masa (EN 14187-9:2006)
Cold applied joint sealants – Test methods – Part 9: Function testing of joint sealants (EN 14187-9:2006)
- zamijenjena s: HRN EN 14187-9:2019

HZN/TO 536, *Vrata, prozori i staklo u graditeljstvu*

- HRN EN 12898:2006 en
Staklo u graditeljstvu – Određivanje emisivnosti (EN 12898:2001)
Glass in building – Determination of the emissivity (EN 12898:2001)
- zamijenjena s: HRN EN 12898:2019

HZN/TO 541, *Sustavi grijanja, ventilacije i klimatizacije u građevinama*

- HRN EN 12976-2:2017 en
Toplinski sustavi Sunčeva zračenja i komponente – Tvornički izrađeni sustavi – 2. dio: Metode ispitivanja (EN 12976-2:2017)
Thermal solar systems and components – Factory made systems – Part 2: Test methods (EN 12976-2:2017)
- zamijenjena s: HRN EN 12976-2:2019

HZN/TO 553, *Predgotovljeni proizvodi*

- HRN EN ISO 10545-4:2014 en
Keramičke pločice – 4. dio: Određivanje nosivosti i čvrstoće pri savijanju (ISO 10545-4:2014; EN ISO 10545-4:2014)
Ceramic tiles – Part 4: Determination of modulus of rupture and breaking strength (ISO 10545-4:2014; EN ISO 10545-4:2014)
- zamijenjena s: HRN EN ISO 10545-4:2019

HZN/TO 554, *Obrada otpadnih voda*

HRN EN 1295-1:2006 en
Statički proračun podzemnih cjevovoda pod različitim uvjetima opterećenja – 1. dio: Opći zahtjevi (EN 1295-1:1997)
Structural design of buried pipelines under various conditions of loading – Part 1: General requirements (EN 1295-1:1997)
- zamijenjena s: HRN EN 1295-1:2019

HZN/TO 555, *Medicinski proizvodi*

HRS CEN/TS 16835-1:2015 en
Molekularna in vitro dijagnostička ispitivanja – Specifikacije za predanalitičke postupke za punu vensku cjelokupnu krv – 1. dio: Izolirana stanična RNK (CEN/TS 16835-1:2015)
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for venous whole blood – Part 1: Isolated cellular RNA (CEN/TS 16835-1:2015)
- zamijenjena s: HRN EN ISO 20186-1:2019

HRS CEN/TS 16835-2:2015 en
Molekularna in vitro dijagnostička ispitivanja – Specifikacije za prethodne ispitne postupke za vensku cjelokupnu krv – 2. dio: Izolirana genomska DNK (CEN/TS 16835-2:2015)
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for venous whole blood – Part 2: Isolated genomic DNA (CEN/TS 16835-2:2015)
- bez zamjene

HZN/TO 557, *Zaštitna odjeća*

HRN EN 343:2008 en
Zaštitna odjeća – Zaštita od kiše (EN 343:2003+A1:2007)
Protective clothing – Protection against rain (EN 343:2003+A1:2007)
- zamijenjena s: HRN EN 343:2019

HRN EN 343:2008/Ispr.1:2010 en
Zaštitna odjeća – Zaštita od kiše (EN 343:2003+A1:2007/AC:2009)
Protective clothing – Protection against rain (EN 343:2003+A1:2007/AC:2009)
- zamijenjena s: HRN EN 343:2019

HRN EN 943-1:2015 en
Odjeća za zaštitu od opasnih čvrstih, tekućih i plinovitih kemikalija, uključujući i tekuće i čvrste aerosole – 1. dio: Zahtjevi za tip 1 (plinonepropusnu) odjeću za zaštitu od kemikalija (EN 943-1:2015)
Protective clothing against dangerous solid, liquid and gaseous chemicals, including liquid and solid aerosols – Part 1: Performance requirements for Type 1 (gas-tight) chemical protective suits (EN 943-1:2015)
- zamijenjena s: HRN EN 943-1:2019

HRN EN 943-2:2002 en
Odjeća za zaštitu od tekućih i plinovitih kemikalija, uključujući i tekuće aerosole i čvrste čestice – 2. dio: Zahtjevi na svojstva za "plinonepropusna" (tip 1) odjeća za zaštitu od kemikalija za spasilačke skupine (ET) (EN 943-2:2002)
Protective clothing for use against liquid and gaseous chemicals, including liquid aerosols and solid particles – Part 2: Performance requirements for "gas tight" (Type 1) chemical protective suits for emergency teams (ET) (EN 943-2:2002)
- zamijenjena s: HRN EN 943-2:2019

HZN/TO 560, *Tekstilni proizvodi*

HRN EN ISO 1833-6:2010 en
Tekstil – Kvantitativna kemijska analiza – 6. dio: Mješavine viskoznog vlakna ili određenih tipova bakrenih, modalnih ili liocelnih vlakana s pamukom (metoda s uporabom mrvlje kiseline i cink-klorida) (ISO 1833-6:2007; EN ISO 1833-6:2010)
Textiles – Quantitative chemical analysis – Part 6: Mixtures of viscose or certain types of cupro or modal or lyocell and cotton fibres (method using formic acid and zinc chloride) (ISO 1833-6:2007; EN ISO 1833-6:2010)
- zamijenjena s: HRN EN ISO 1833-6:2019

HRN EN ISO 1833-20:2010 en
Tekstil – Kvantitativna kemijska analiza – 20. dio: Mješavine elastanskih vlakana i određenih drugih vlakana (metoda s uporabom dimetilacetamida) (ISO 1833-20:2009; EN ISO 1833-20:2010)
Textiles – Quantitative chemical analysis – Part 20: Mixtures of elastane and certain other fibres (method using dimethylacetamide) (ISO 1833-20:2009; EN ISO 1833-20:2010)
- zamijenjena s: HRN EN ISO 1833-20:2019

HZN/TO 561, *Kotlovi, posude pod tlakom, cjevovodi i plinske boce*

HRN EN 12817:2010 en
Oprema i pribor za UNP – Pregled i ponovno potvrđivanje spremnika za UNP do uključivo 13 m³ (EN 12817:2010)
LPG Equipment and accessories – Inspection and requalification of LPG tanks up to and including 13 m³ (EN 12817:2010)
- zamijenjena s: HRN EN 12817:2019

HRN EN 12819:2010 en
Oprema i pribor za UNP – Pregled i ponovno potvrđivanje spremnika za UNP kapaciteta većeg od 13 m³ (EN 12819:2009)
LPG equipment and accessories – Inspection and requalification of LPG tanks greater than 13 m³ (EN 12819:2009)
- zamijenjena s: HRN EN 12819:2019

HZN/TO 563, *Sigurnost strojeva*

HRN EN 12215:2009 en
Postrojenja za prevlačenje – Komora za naštrecavanje (prskanje) tekućih organskih materijala za prevlačenje – Sigurnosni zahtjevi (EN 12215:2004+A1:2009)
Coating plants – Spray booths for application of organic liquid coating materials – Safety requirements (EN 12215:2004+A1:2009)
- zamijenjena s: HRN EN 16985:2019

HRN EN 12981:2009 en
Postrojenje za prevlačenje – Komore za naštrecavanje kada se primjenjuju organski praškasti materijali za prevlačenje – Sigurnosni zahtjevi (EN 12981:2005+A1:2009)
Coating plants – Spray booths for application of organic powder coating material – Safety requirements (EN 12981:2005+A1:2009)
- zamijenjena s: HRN EN 16985:2019

HRN EN 13355:2009 en
Postrojenja za prevlačenje – Višenamjenske komore – Sigurnosni zahtjevi (EN 13355:2004+A1:2009)
Coating plants – Combined booths – Safety requirements (EN 13355:2004+A1:2009)
- zamijenjena s: HRN EN 16985:2019

HZN/TO 566, *Mlijeko i mliječni proizvodi*

HRN ISO 16297:2013 en
Mlijeko – Broj bakterija – Protokol za procjenu alternativnih metoda (ISO 16297:2013)
Milk – Bacterial count – Protocol for the evaluation of alternative methods (ISO 16297:2013)
- zamijenjena s: HRN EN ISO 16297:2014

HZN/TO 577, *Metode ispitivanja za karakterizaciju krutih i tekućih sastavnica i opterećenja okoliša*

HRN EN ISO 23753-1:2011 en
Kvaliteta tla – Određivanje dehidrogenazne aktivnosti u tlu – 1. dio: Metoda s trifeniltetrazolom kloridom (TTC) (ISO 23753-1:2005; EN ISO 23753-1:2011)
Soil Quality – Determination of dehydrogenase activity in soil – Part 1: Method using triphenyltetrazolium chloride (TTC) (ISO 23753-1:2005; EN ISO 23753-1:2011)
- zamijenjena s: HRN EN ISO 23753-1:2019

HRN EN ISO 23753-2:2011 en
Kvaliteta tla – Određivanje dehidrogenazne aktivnosti u tlu – 2. dio: Metoda sa jodtetrazolom kloridom (INT) (ISO 23753-2:2005; EN ISO 23753-2:2011)
Soil Quality – Determination of dehydrogenase activity in soils – Part 2: Method using iodotetrazolium chloride (INT) (ISO 23753-2:2005; EN ISO 23753-2:2011)
- zamijenjena s: HRN EN ISO 23753-2:2019

HZN/TU S1, *Zdravlje, okoliš i medicinska oprema 1*

HRN EN ISO 13958:2015 en
Koncentrati za hemodijalizu i srodne terapije (ISO 13958:2014; EN ISO 13958:2015)
Concentrates for haemodialysis and related therapies (ISO 13958:2014; EN ISO 13958:2015)
- zamijenjena s: HRN EN ISO 23500-4:2019

HRN EN ISO 13959:2015 en
Voda za potrebe hemodijalize i srodnih terapija (ISO 13959:2014; EN ISO 13959:2015)
Water for haemodialysis and related therapies (ISO 13959:2014; EN ISO 13959:2015)
- zamijenjena s: HRN EN ISO 23500-3:2019

HRN EN 14683:2014 en
Kirurške maske – Zahtjevi i metode ispitivanja (EN 14683:2014)
Medical face masks – Requirements and test methods (EN 14683:2014)
- zamijenjena s: HRN EN 14683:2019

HRN EN ISO 23500:2015 en
Upute za pripremu i upravljanje kvalitetom tekućina za hemodijalizu i srodne terapije (ISO 23500:2014; EN ISO 23500:2015)
Guidance for the preparation and quality management of fluids for haemodialysis and related therapies (ISO 23500:2014; EN ISO 23500:2015)
- zamijenjena s: HRN EN ISO 23500-1:2019

HRN EN ISO 26722:2015 en
Uređaji za obradu vode za potrebe hemodijalize i srodnih terapija (ISO 26722:2014; EN ISO 26722:2015)
Water treatment equipment for haemodialysis applications and related therapies (ISO 26722:2014; EN ISO 26722:2015)
- zamijenjena s: HRN EN ISO 23500-2:2019

HZN/TU T1, Prijevoz, rukovanje materijalima i pakiranje 1

HRN EN 3155-004:2008 en
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 004. dio: Kontakti, električni, muški, tip A, za krimpanje, razreda T – Norma za proizvod (EN 3155-004:2007)
Aerospace series – Electrical contacts used in elements of connection – Part 004: Contacts, electrical, male, type A, crimp, class T – Product standard (EN 3155-004:2007)
- zamijenjena s: HRN EN 3155-004:2019

HRN EN 3155-005:2008 en
Nizovi o zrakoplovstvu – Električni kontakti koji se upotrebljavaju u elementima za povezivanje – 005. dio: Kontakti, električni, ženski, tip A, za krimpanje, razreda T – Norma za proizvod (EN 3155-005:2006+AC:2006)
Aerospace series – Electrical contacts used in elements of connection – Part 005: Contacts, electrical, female, type A, crimp, class T – Product standard (EN 3155-005:2006+AC:2006)
- zamijenjena s: HRN EN 3155-005:2019

HRN EN 3645-004:2008 en
Nizovi o zrakoplovstvu – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 004. dio: Utičnica, bez dotoka zraka, s kvadratnom priрубnicom za montažu – Norma za proizvod (EN 3645-004:2006)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 004: Receptacle, hermetic, square flange mounting – Product standard (EN 3645-004:2006)
- zamijenjena s: HRN EN 3645-004:2019

HRN EN 3645-009:2008 en
Nizovi o zrakoplovstvu – Spojnice, električne, okrugle, sa zaštitom od dodira, za spajanje pomoću trostrukog navoja, stalne radne temperature 175 °C ili 200 °C – 009. dio: Utičnica, okrugla priрубnica, ugradanja sa kontra maticom – Norma za proizvod (EN 3645-009:2006)
Aerospace series – Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous – Part 009: Receptacle, round flange, jam nut mounting – Product standard (EN 3645-009:2006)
- zamijenjena s: HRN EN 3645-009:2019

HRN EN 3833:2008 en
Nizovi o zrakoplovstvu – Vijci, s "MJ" navojem, otporni na toplinu od legure na bazi nikla NI-PH2601 (Inconel 718), pasivizirani – Klasifikacija: 1550 MPa (pri temperaturi okoline)/650 °C – Tehnička specifikacija (EN 3833:2004)
Aerospace series – Bolts, MJ threads, in heat resisting nickel base alloy NI-PH2601 (Inconel 718), passivated – Classification: 1550 MPa (at ambient temperature)/650 °C – Technical specification (EN 3833:2004)
- zamijenjena s: HRN EN 3833:2019

HRN EN 16602-70-26:2015 en
Osiguranje kvalitete proizvoda za upotrebu u svemiru – Krimpanje električnih kontakata visoke pouzdanosti (EN 16602-70-26:2014)
Space product assurance – Crimping of high-reliability electrical connections (EN 16602-70-26:2014)
- zamijenjena s: HRN EN 16602-70-26:2019

1.6 Ispravci hrvatskih norma

U popisima hrvatskih norma objavljenim u ranijim brojevima službenog glasila potkrale su se pogreške. Niže navodimo ispravne oznake i naslove hrvatskih norma. Navedeni ispravci smatraju se službenom informacijom i nisu nužno uključeni u norme koje su prethodno objavljene.

HZN/TO 8, Brodogradnja

• umjesto

HRN EN ISO 6185-2:2018
Brodice na napuhavanje – 2. dio: Brodice sa najvećom snagom motora do 4,5 kW do 15 kW **uključivo** (ISO 6185-2:2001; EN ISO 6185-2:2018)
Inflatable boats – Part 2: Boats with a maximum motor power rating of 4,5 kW to 15 kW inclusive (ISO 6185-2:2001; EN ISO 6185-2:2018)

• treba biti

HRN EN ISO 6185-2:2018
Brodice na napuhavanje – 2. dio: Brodice s najvećom snagom motora od 4,5 kW do **uključujući** 15 kW (ISO 6185-2:2001; EN ISO 6185-2:2018)
Inflatable boats – Part 2: Boats with a maximum motor power rating of 4,5 kW to 15 kW inclusive (ISO 6185-2:2001; EN ISO 6185-2:2018)

• umjesto

HRN EN ISO 6185-3:2018
Brodice na napuhavanje – 3. dio: Brodice duljine trupa manje od 8 m **najveće** snage motora 15 kW i više (ISO 6185-3:2014; EN ISO 6185-3:2018)
Inflatable boats – Part 3: Boats with a hull length less than 8 m with a motor rating of 15 kW and greater (ISO 6185-3:2014; EN ISO 6185-3:2018)

• treba biti

HRN EN ISO 6185-3:2018
Brodice na napuhavanje – 3. dio: Brodice duljine trupa manje od 8 m **snage** motora 15 kW i više (ISO 6185-3:2014; EN ISO 6185-3:2018)
Inflatable boats – Part 3: Boats with a hull length less than 8 m with a motor rating of 15 kW and greater (ISO 6185-3:2014; EN ISO 6185-3:2018)

HZN/TO 503, Metalni materijali

• umjesto

HRN EN ISO 15630-1:2019
Čelik za armiranje i prednapinjanje betona – Metode ispitivanja – 1. dio: Armaturene šipke, **vučene** žice i žica (ISO 15630-1:2019; EN ISO 15630-1:2019)
Steel for the reinforcement and prestressing of concrete – Test methods – Part 1: Reinforcing bars, rods and wire (ISO 15630-1:2019; EN ISO 15630-1:2019)

• treba biti

HRN EN ISO 15630-1:2019
Čelik za armiranje i prednapinjanje betona – Metode ispitivanja – 1. dio: Armaturene šipke, **valjane** žice i žica (ISO 15630-1:2019; EN ISO 15630-1:2019)
Steel for the reinforcement and prestressing of concrete – Test methods – Part 1: Reinforcing bars, rods and wire (ISO 15630-1:2019; EN ISO 15630-1:2019)

HZN/TO E36, Izolatori

- **umjesto**

HRN EN IEC/IEEE 65700:2018
Provodni izolatori za istosmjerne primjene
(IEC/IEEE 65700-19-03:2014; EN IEC/IEEE 65700:2018)
Bushings for DC application (IEC/IEEE 65700-19-03:2014;
EN IEC/IEEE 65700:2018)

- **treba biti**

HRN EN IEC/IEEE 65700-19-03:2018
Provodni izolatori za istosmjerne primjene
(IEC/IEEE 65700-19-03:2014; EN IEC/IEEE 65700-19-03:2018)
Bushings for DC application (IEC/IEEE 65700-19-03:2014;
EN IEC/IEEE 65700-19-03:2018)

HZN/TO E76, Sigurnost optičkoga zračenja i laserska oprema

- **umjesto**

HRN EN 60825-1:2015
Sigurnost laserskih proizvoda – 1. dio: **Razredba** opreme i
zahtjevi (IEC 60825-1:2014; EN 60825-1:2014)
Safety of laser products – Part 1: Equipment classification
and requirements (IEC 60825-1:2014; EN 60825-1:2014)

- **treba biti**

HRN EN 60825-1:2015
Sigurnost laserskih proizvoda – 1. dio: **Klasifikacija** opreme i
zahtjevi (IEC 60825-1:2014; EN 60825-1:2014)
Safety of laser products – Part 1: Equipment classification
and requirements (IEC 60825-1:2014; EN 60825-1:2014)

- **umjesto**

HRN EN 60825-1:2015/Ispr.1:2017
Sigurnost laserskih proizvoda – 1. dio: **Razredba** opreme i
zahtjevi (EN 60825-1:2014/AC:2017)
Safety of laser products – Part 1: Equipment classification
and requirements (EN 60825-1:2014/AC:2017)

- **treba biti**

HRN EN 60825-1:2015/Ispr.1:2017
Sigurnost laserskih proizvoda – 1. dio: **Klasifikacija** opreme i
zahtjevi (EN 60825-1:2014/AC:2017)
Safety of laser products – Part 1: Equipment classification
and requirements (EN 60825-1:2014/AC:2017)

- **umjesto**

HRI IEC/TR 60825-8:2008
Sigurnost laserskih proizvoda – 8. dio: **Vodič** za sigurnu
uporabu laserskih zraka na ljudima (IEC/TR 60825-8:2006)
Safety of laser products – Part 8: Guidelines for the safe use
of laser beams on humans (IEC/TR 60825-8:2006)

- **treba biti**

HRI IEC/TR 60825-8:2008
Sigurnost laserskih proizvoda – 8. dio: **Smjernice** za sigurnu
uporabu laserskih zraka na ljudima (IEC/TR 60825-8:2006)
Safety of laser products – Part 8: Guidelines for the safe use
of laser beams on humans (IEC/TR 60825-8:2006)

1.10 Prijevodi hrvatskih normativnih dokumenata

HZN/TO E76, Sigurnost optičkoga zračenja i laserska oprema

Sljedeća hrvatska norma objavljena na engleskome jeziku sada je dostupna i na hrvatskome jeziku:

HRN EN 60825-1:2015/Ispr.1:2017 hr-en pr-pp
Sigurnost laserskih proizvoda – 1. dio: Klasifikacija opreme i
zahtjevi (EN 60825-1:2014/AC:2017)
Safety of laser products – Part 1: Equipment classification
and requirements (EN 60825-1:2014/AC:2017)

2 Rezultati međunarodne i europske normizacije razvrstani po predmetnom ustroju

01.040.01 Opći pojmovi. Nazivlje. Normizacija. Dokumentacija (Rječnici)

Međunarodna normizacija
IEC

IEC 60050-112 AMD 1:2019
International Electrotechnical Vocabulary – Part 112:
Quantities and unit; Amendment 1

01.040.29 Elektrotehnika (Rječnici)

Međunarodna normizacija
IEC

IEC 60050-112 AMD 1:2019
International Electrotechnical Vocabulary – Part 112:
Quantities and unit; Amendment 1

IEC 60050-691 AMD 1:2019
International Electrotechnical Vocabulary (IEV) – Part 691:
Tariffs for electricity; Amendment 1

IEC 62747 AMD 1:2019
Terminology for voltage-sourced converters (VSC) for
high-voltage direct current (HVDC) systems

IEC 62747 Edition 1.1:2019
Terminology for voltage-sourced converters (VSC) for
high-voltage direct current (HVDC) systems

01.040.33 Telekomunikacije. Audiotehnika i videotehnika (Rječnici)

Europska normizacija
ETSI

ETSI GS MEC 001 V 2.1.1:2019
Multi-access Edge Computing (MEC) – Terminology

01.040.65 Poljoprivreda (Rječnici)

Europska normizacija
CEN

CWA 17369:2019
Authenticity and fraud in the feed and food chain – Concepts,
terms, and definitions

01.040.67 Prehrambena tehnologija (Rječnici)

Europska normizacija
CEN

CWA 17369:2019
Authenticity and fraud in the feed and food chain – Concepts,
terms, and definitions

01.040.79 Drvena tehnologija (Rječnici)

Međunarodna normizacija
ISO

ISO 633:2019
Cork – Vocabulary

01.060 Veličine i jedinice

Međunarodna normizacija
IEC

IEC 60050-112 AMD 1:2019
International Electrotechnical Vocabulary – Part 112:
Quantities and unit; Amendment 1

01.120 Normizacija. Opća pravila

Europska normizacija
CEN

CEN Guide 17:2019
Safety of pressure equipment – Rules and recommendations
for the drafting and presentation of safety standards

ETSI

ETSI SR 000314 V 2.24.1:2018
Intellectual Property Rights (IPRs) – Essential, or potentially
Essential, IPRs notified to ETSI in respect of ETSI standards

01.140.20 Informacijske znanosti

Međunarodna normizacija
ISO

ISO 30301:2019
Information and documentation – Management systems for
records – Requirements

03.120.30 Primjena statističkih metoda

Međunarodna normizacija
ISO

ISO 16355-3:2019
Applications of statistical and related methods to new
technology and product development process – Part 3:
Quantitative approaches for the acquisition of voice of
customer and voice of stakeholder

03.140 Patenti. Intelektualno vlasništvo

Europska normizacija
ETSI

ETSI SR 000314 V 2.24.1:2018
Intellectual Property Rights (IPRs) – Essential, or potentially
Essential, IPRs notified to ETSI in respect of ETSI standards

03.220.01 Prijevoz općenito

Međunarodna normizacija
ISO

ISO 14827-3:2019
Transport information and control systems – Data interfaces
between centres for transport information and control systems
– Part 3: Data interfaces between centres for intelligent
transport systems (ITS) using XML (Profile A)

ISO/TR 21718:2019
Intelligent transport systems – Spatio-temporal data dictionary
for cooperative ITS and automated driving systems 2.0

ISO 29281-2:2019
Intelligent transport systems – Localized communications
– Part 2: Legacy system support

07.100.40 Mikrobiologija kozmetike

Međunarodna normizacija
ISO

ISO 11930:2019
Cosmetics – Microbiology – Evaluation of the antimicrobial
protection of a cosmetic product

07.100.99 Ostale norme koje se odnose na mikrobiologiju

Međunarodna normizacija ISO

ISO 21703:2019
Surface active agents – Microbiology – Microbiological test methods for liquid hand dishwashing

11.040.10 Anestezijska, respiracijska i reanimacijska oprema

Europska normizacija CEN

EN ISO 7396-1:2016/A1:2019
Medical gas pipeline systems – Part 1: Pipeline systems for compressed medical gases and vacuum – Amendment 1 (ISO 7396-1:2016/Amd 1:2017)

EN ISO 10079-1:2015/A1:2019
Medical suction equipment – Part 1: Electrically powered suction equipment – Amendment 1: Changes to requirements for operating at extremes of temperature (ISO 10079-1:2015/Amd 1:2018)

EN ISO 10524-1:2019
Pressure regulators for use with medical gases – Part 1: Pressure regulators and pressure regulators with flow-metering devices (ISO 10524-1:2018)

EN ISO 10524-2:2019
Pressure regulators for use with medical gases – Part 2: Manifold and line pressure regulators (ISO 10524-2:2019)

EN ISO 10524-3:2019
Pressure regulators for use with medical gases – Part 3: Pressure regulators integrated with cylinder valves (VIPRs) (ISO 10524-3:2019)

Međunarodna normizacija ISO

ISO 10524-3:2019
Pressure regulators for use with medical gases – Part 3: Pressure regulators integrated with cylinder valves (VIPRs)

11.040.25 Šprice. Igle. Kateteri

Međunarodna normizacija ISO

ISO 11040-6:2019
Prefilled syringes – Part 6: Plastic barrels for injectables and sterilized subassembled syringes ready for filling

11.040.40 Implantati za kirurgiju, protetiku i ortotiku

Međunarodna normizacija ISO

ISO 14242-3 AMD 1:2019
Implants for surgery – Wear of total hip-joint prostheses – Part 3: Loading and displacement parameters for orbital bearing type wear testing machines and corresponding environmental conditions for test; Amendment 1

11.040.55 Dijagnostička oprema

Europska normizacija CENELEC

EN 60601-2-40:2019
Medical electrical equipment – Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment (IEC 60601-2-40:2016)

EN ISO 80601-2-61:2019
Medical electrical equipment – Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment (ISO 80601-2-61:2017)

11.040.99 Ostala medicinska oprema

Međunarodna normizacija ISO

ISO/TR 20498-5:2019
Traditional Chinese medicine – Computerized tongue image analysis system – Part 5: Method of acquisition and expression of tongue colour and tongue coating colour

ISO 23907-1:2019
Sharps injury protection – Requirements and test methods – Part 1: Single-use sharps containers

11.060.01 Stomatologija općenito

Međunarodna normizacija ISO

ISO/TR 22710:2019
Dentistry – Vocabulary of process chain from dental CT to CAD/CAM for implant prosthetic restorations – Backward planning in the digital process chain

11.080.30 Sterilizirani zavoji

Međunarodna normizacija ISO

ISO 11607-1:2019
Packaging for terminally sterilized medical devices – Part 1: Requirements for materials, sterile barrier systems and packaging systems

ISO 11607-2:2019
Packaging for terminally sterilized medical devices – Part 2: Validation requirements for forming, sealing and assembly processes

11.100.10 In vitro dijagnostički ispitni sustavi

Europska normizacija CEN

EN ISO 20166-3:2019
Molecular in vitro diagnostic examinations – Specifications for pre-examination processes for formalin-fixed and paraffin-embedded (FFPE) tissue – Part 3: Isolated DNA (ISO 20166-3:2018)

11.100.99 Ostale norme koje se odnose na laboratorijsku medicinu

Europska normizacija CEN

EN ISO 15195:2019
Laboratory medicine – Requirements for the competence of calibration laboratories using reference measurement procedures (ISO 15195:2018)

11.180.01 Pomagala za osobe s invaliditetom općenito

Međunarodna normizacija ISO

ISO 21802:2019
Assistive products – Guidelines on cognitive accessibility – Daily time management

11.180.30 Pomagala za slijepe ili slabovidne osobe

Međunarodna normizacija ISO

- ISO 23599:2019
Assistive products for blind and vision-impaired persons
– Tactile walking surface indicators

13.020.10 Upravljanje okolišem

Europska normizacija CEN

- EN 305174-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM)
– Broadband Deployment and Lifecycle Resource
Management – Part 1: Overview, common and generic
aspects
- EN 305174-2 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM)
– Broadband Deployment and Lifecycle Resource
Management – Part 2: ICT Sites

Međunarodna normizacija ISO

- ISO 13315-8:2019
Environmental management for concrete and concrete
structures – Part 8: Environmental labels and declarations

13.020.40 Onečišćenje, nadzor nad onečišćenjem i zaštita od onečišćenja

Europska normizacija CEN

- EN ISO 14064-1:2019
Greenhouse gases – Part 1: Specification with
guidance at the organization level for quantification and
reporting of greenhouse gas emissions and removals
(ISO 14064-1:2018)

Međunarodna normizacija ISO

- ISO 27916:2019
Carbon dioxide capture, transportation and geological storage
– Carbon dioxide storage using enhanced oil recovery
(CO₂-EOR)

13.030.01 Otpad općenito

Europska normizacija CEN

- EN 16167+AC:2019
Soil, treated biowaste and sludge – Determination of
polychlorinated biphenyls (PCB) by gas chromatography with
mass selective detection (GC-MS) and gas chromatography
with electron-capture detection (GC-ECD)

13.030.50 Recikliranje

Europska normizacija ETSI

- EN 305174-8 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM)
– Broadband Deployment and Lifecycle Resource
Management – Part 8: Management of end of life of ICT
equipment (ICT waste/end of life)

13.040.20 Atmosfera okoliša

Međunarodna normizacija ISO

- ISO 16000-37:2019
Indoor air – Part 37: Measurement of PM_{2,5} mass
concentration
- ISO 16000-38:2019
Indoor air – Part 38: Determination of amines in indoor and
test chamber air – Active sampling on samplers containing
phosphoric acid impregnated filters

13.040.50 Emisije plinova iz prijevoznih sredstava

Europska normizacija CEN

- CWA 17379:2019
General guideline on real drive test methodology for compiling
comparable emission data

Međunarodna normizacija ISO

- ISO 8178-3:2019
Reciprocating internal combustion engines – Exhaust emission
measurement – Part 3: Test procedures for measurement
of exhaust gas smoke emissions from compression ignition
engines using a filter type smoke meter

13.060.60 Ispitivanje fizikalnih svojstava vode

Međunarodna normizacija ISO

- ISO 7027-2:2019
Water quality – Determination of turbidity – Part 2: Semi-
quantitative methods for the assessment of transparency of
waters

13.080.10 Kemijske značajke tla

Europska normizacija CEN

- EN 16167+AC:2019
Soil, treated biowaste and sludge – Determination of
polychlorinated biphenyls (PCB) by gas chromatography with
mass selective detection (GC-MS) and gas chromatography
with electron-capture detection (GC-ECD)

13.080.20 Fizikalna svojstva tla

Međunarodna normizacija ISO

- ISO 17892-11:2019
Geotechnical investigation and testing – Laboratory testing of
soil – Part 11: Permeability tests

13.110 Sigurnost strojeva

Europska normizacija CENELEC

- EN IEC 60204-11:2019
Safety of machinery – Electrical equipment of machines
– Part 11: Requirements for equipment for voltages
above 1000 V AC or 1500 V DC and not exceeding 36 kV
(IEC 60204-11:2018)

Međunarodna normizacija ISO

- ISO 19353:2019
Safety of machinery – Fire prevention and fire protection

IEC

IEC/TR 63176:2019
Process analysis technology systems as part of safety instrumented systems

13.160 Utjecaj vibracija i udara na ljude

Međunarodna normizacija
ISO

ISO 10819 AMD 1:2019
Mechanical vibration and shock – Hand-arm vibration – Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand; Amendment 1

13.220.40 Zapaljivost i ponašanje materijala i proizvoda pri izgaranju

Međunarodna normizacija
IEC

IEC 60332-3-24 Interpretation Sheet 1:2019
Tests on electric and optical fibre cables under fire conditions – Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C; Interpretation sheet 1

13.220.50 Vatrootpornost građevnih materijala i elemenata

Međunarodna normizacija
ISO

ISO 3008-1:2019
Fire resistance tests – Door and shutter assemblies – Part 1: General requirements

13.320 Alarmni sustavi i sustavi uzbunjivanja

Europska normizacija
CEN

EN 81-28+AC:2019
Safety rules for the construction and installation of lifts for the transport of persons and goods – Part 28: Remote alarm on passenger and goods passenger lifts

13.340.20 Zaštitna oprema za glavu

Međunarodna normizacija
ISO

ISO 4869-6:2019
Acoustics – Hearing protectors – Part 6: Determination of sound attenuation of active noise reduction earmuffs

13.340.40 Zaštita ruku i šaka

Međunarodna normizacija
ISO

ISO 10819 AMD 1:2019
Mechanical vibration and shock – Hand-arm vibration – Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand; Amendment 1

17.040.10 Granične vrijednosti i prilagodbe

Europska normizacija
CEN

EN ISO 14405-2:2019
Geometrical product specifications (GPS) – Dimensional tolerancing – Part 2: Dimensions other than linear or angular sizes (ISO 14405-2:2018)

17.120.10 Protok u zatvorenim cjevovodima

Međunarodna normizacija
ISO

ISO 14511:2019
Measurement of fluid flow in closed conduits – Thermal mass flowmeters

17.140.20 Buka koju proizvode strojevi i oprema

Međunarodna normizacija
ISO

ISO 17201-3:2019
Acoustics – Noise from shooting ranges – Part 3: Sound propagation calculations

17.220.20 Mjerenje električnih i magnetskih veličina

Međunarodna normizacija
IEC

IEC 60404-7:2019
Magnetic materials – Part 7: Method of measurement of the coercivity (up to 160 kA/m) of magnetic materials in an open magnetic circuit

17.220.99 Ostale norme koje se odnose na elektricitet i magnetizam

Međunarodna normizacija
IEC

IEC 60674-2 AMD 1:2019
Specification for plastic films for electrical purposes – Part 2: Methods of test

IEC 60674-2 Edition 2.1:2019
Specification for plastic films for electrical purposes – Part 2: Methods of test

17.240 Mjerenja zračenja

Međunarodna normizacija
ISO

ISO 4037-1:2019
Radiological protection – X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy – Part 1: Radiation characteristics and production methods

ISO 4037-2:2019
Radiological protection – X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy – Part 2: Dosimetry for radiation protection over the energy ranges from 8 keV to 1,3 MeV and 4 MeV to 9 MeV

ISO 4037-3:2019
Radiological protection – X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy – Part 3: Calibration of area and personal dosimeters and the measurement of their response as a function of energy and angle of incidence

ISO 4037-4:2019
Radiological protection – X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy – Part 4: Calibration of area and personal dosimeters in low energy X reference radiation fields

19.100 Nerazorna ispitivanja

Međunarodna normizacija ISO

- ISO 16836:2019
Non-destructive testing – Acoustic emission testing – Measurement method for acoustic emission signals in concrete
- ISO 16837:2019
Non-destructive testing – Acoustic emission testing – Test method for damage qualification of reinforced concrete beams
- ISO 16838:2019
Non-destructive testing – Acoustic emission testing – Test method for classification of active cracks in concrete structures

21.100.10 Klizni ležajevi

Međunarodna normizacija ISO

- ISO 22423:2019
Foil bearings – Performance testing of foil thrust bearings – Testing of static load capacity, bearing torque, friction coefficient and lifetime

23.020.30 Tlačne posude, cilindrični plinski spremnici

Europska normizacija CEN

- CEN Guide 17:2019
Safety of pressure equipment – Rules and recommendations for the drafting and presentation of safety standards

23.020.35 Plinske boce

Međunarodna normizacija ISO

- ISO 16964:2019
Gas cylinders – Flexible hoses assemblies – Specification and testing

23.040.20 Plastične cijevi

Međunarodna normizacija ISO

- ISO 11296-7:2019
Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes

23.040.45 Plastične spojnice

Međunarodna normizacija ISO

- ISO 11296-7:2019
Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes

23.080 Pumpe

Međunarodna normizacija ISO

- ISO/ASME 14414:2019
Pump system energy assessment
- ISO/TR 19688:2019
Rotodynamic pumps – Hydraulic performance acceptance test using a model pump

23.100.10 Pumpe i motori

Međunarodna normizacija IEC

- IEC 62364:2019
Hydraulic machines – Guidelines for dealing with hydro-abrasive erosion in kaplan, francis, and pelton turbines

23.120 Ventilatori. Klimatizacijski uređaji

Europska normizacija CENELEC

- EN IEC 60665:2019
A.C. ventilating fans and regulators for household and similar purposes – Methods for measuring performance (IEC 60665:2018)

23.160 Vakuumska tehnologija

Međunarodna normizacija ISO

- ISO 20146:2019
Vacuum technology – Vacuum gauges – Specifications, calibration and measurement uncertainties for capacitance diaphragm gauges
- ISO 21360-3:2019
Vacuum technology – Standard methods for measuring vacuum pump performance – Part 3: Specific parameters for mechanical booster vacuum pumps

25.040.40 Mjerenje i upravljanje u industrijskim procesima

Međunarodna normizacija ISO

- ISO 18828-5:2019
Industrial automation systems and integration – Standardized procedures for production systems engineering – Part 5: Manufacturing change management

IEC

- IEC/TR 63176:2019
Process analysis technology systems as part of safety instrumented systems

25.100.01 Alati za rezanje općenito

Međunarodna normizacija ISO

- ISO 22180:2019
CVD diamond tools – Categorization

25.160.20 Dodatni i potrošni materijali za zavarivanje

Međunarodna normizacija ISO

- ISO/TR 23413:2019
Resistance welding – Overview of standards for resistance welding

25.160.30 Oprema za zavarivanje

Međunarodna normizacija IEC

- IEC 60974-1 AMD 1:2019
Arc welding equipment – Part 1: Welding power sources; Amendment 1
- IEC 60974-1 Edition 5.1:2019
Arc welding equipment – Part 1: Welding power sources

IEC 60974-2:2019
Arc welding equipment – Part 2: Liquid cooling systems

IEC 60974-3:2019
Arc welding equipment – Part 3: Arc striking and stabilizing devices

IEC 60974-5:2019
Arc welding equipment – Part 5: Wire feeders

IEC 60974-7:2019
Arc welding equipment – Part 7: Torches

25.160.40 Zavareni spojevi i zavari

Međunarodna normizacija ISO

ISO 5178:2019
Destructive tests on welds in metallic materials – Longitudinal tensile test on weld metal in fusion welded joints

25.220.20 Površinska obrada

Europska normizacija CEN

EN ISO 10111:2019
Metallic and other inorganic coatings – Measurement of mass per unit area – Review of gravimetric and chemical analysis methods (ISO 10111:2019)

Međunarodna normizacija ISO

ISO 10111:2019
Metallic and other inorganic coatings – Measurement of mass per unit area – Review of gravimetric and chemical analysis methods

25.220.40 Metalne prevlake

Europska normizacija CEN

EN ISO 10111:2019
Metallic and other inorganic coatings – Measurement of mass per unit area – Review of gravimetric and chemical analysis methods (ISO 10111:2019)

Međunarodna normizacija ISO

ISO 10111:2019
Metallic and other inorganic coatings – Measurement of mass per unit area – Review of gravimetric and chemical analysis methods

27.015 Energetska učinkovitost. Očuvanje energije općenito

Europska normizacija ETSI

EN 305200-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 1: General requirements

EN 305200-2-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 1: ICT Sites

EN 305200-2-2 V 1.2.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 2: Fixed broadband access networks

EN 305200-2-3 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 3: Mobile broadband access networks

EN 305200-3-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 3: ICT Sites – Sub-part 1: DCEM

EN 305200-4-4 V 1.1.1:2018
Integrated broadband cable telecommunication networks (CABLE) – Energy management – Operational infrastructures – Global KPIs – Part 4: Design assessments – Sub-part 4: Cable Access Networks

27.020 Motori s unutrašnjim izgaranjem

Međunarodna normizacija ISO

ISO 8178-3:2019
Reciprocating internal combustion engines – Exhaust emission measurement – Part 3: Test procedures for measurement of exhaust gas smoke emissions from compression ignition engines using a filter type smoke meter

27.060.30 Kotlovi i izmjenjivači topline

Međunarodna normizacija ISO

ISO 16812:2019
Petroleum, petrochemical and natural gas industries – Shell-and-tube heat exchangers

27.120.01 Nuklearna energija općenito

Europska normizacija CEN

CWA 17377:2019
Design and Construction Codes for Gen II to IV nuclear facilities (pilot case for process for evolution of AFCEN codes)

27.120.10 Reaktorska tehnika

Međunarodna normizacija ISO

ISO 10979:2019
Identification of fuel assemblies for nuclear power reactors

27.120.20 Nuklearne elektrane. Sigurnost

Međunarodna normizacija IEC

IEC 62765-2:2019
Nuclear power plants – Instrumentation and control important to safety – Management of ageing of sensors and transmitters – Part 2: Temperature sensors

IEC 62954:2019
Nuclear power plants – Control rooms – Requirements for emergency response facilities

IEC/TR 63192:2019
Nuclear power plants – Instrumentation and control systems important to safety – Hazard analysis: a review of current approaches

27.120.30 Fisijski materijali i tehnologija nuklearnog goriva

Međunarodna normizacija ISO

- ISO 8299:2019
Nuclear fuel technology – Determination of the isotopic and elemental uranium and plutonium concentrations of nuclear materials in nitric acid solutions by thermal-ionization mass spectrometry
- ISO 9463:2019
Nuclear energy – Nuclear fuel technology – Determination of plutonium in nitric acid solutions by spectrophotometry
- ISO 18256-1:2019
Nuclear fuel technology – Dissolution of plutonium dioxide-containing materials – Part 1: Dissolution of plutonium dioxide powders
- ISO 18256-2:2019
Nuclear fuel technology – Dissolution of plutonium dioxide-containing materials – Part 2: Dissolution of MOX pellets and powders

27.140 Hidroenergetika

Međunarodna normizacija IEC

- IEC 62364:2019
Hydraulic machines – Guidelines for dealing with hydro-abrasive erosion in kaplan, francis, and pelton turbines

29.020 Elektrotehnika općenito

Europska normizacija CENELEC

- EN IEC 60204-11:2019
Safety of machinery – Electrical equipment of machines – Part 11: Requirements for equipment for voltages above 1000 V AC or 1500 V DC and not exceeding 36 kV (IEC 60204-11:2018)

Međunarodna normizacija IEC

- IEC 60050-112 AMD 1:2019
International Electrotechnical Vocabulary – Part 112: Quantities and unit; Amendment 1
- IEC/TR 62559-1:2019
Use case methodology – Part 1: Concept and processes in standardization

29.030 Magnetni materijali

Međunarodna normizacija IEC

- IEC 60404-7:2019
Magnetic materials – Part 7: Method of measurement of the coercivity (up to 160 kA/m) of magnetic materials in an open magnetic circuit

29.035.20 Plastični i gumeni izolacijski materijali

Međunarodna normizacija IEC

- IEC 60674-2 AMD 1:2019
Specification for plastic films for electrical purposes – Part 2: Methods of test
- IEC 60674-2 Edition 2.1:2019
Specification for plastic films for electrical purposes – Part 2: Methods of test

- IEC 60674-3-2:2019
Specification for plastic films for electrical purposes – Part 3: Specifications for individual materials Sheet 2: Requirements for balanced biaxially oriented polyethylene terephthalate (PET) films used for electrical insulation

29.060.20 Kabeli

Međunarodna normizacija IEC

- IEC 60332-3-24 Interpretation Sheet 1:2019
Tests on electric and optical fibre cables under fire conditions – Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C; Interpretation sheet 1

29.080.30 Izolacijski sustavi

Međunarodna normizacija IEC

- IEC/TR 63040 Corrigendum 1:2019
Guidance on clearances and creepage distances in particular for distances equal to or less than 2 mm – Test results of research on influencing parameters; Corrigendum 1

29.100.99 Ostali električki sastavni dijelovi

Međunarodna normizacija IEC

- IEC 60529 AMD 2 Corrigendum 1:2019
Degrees of protection provided by enclosures (IP code); Amendment 2; Corrigendum 1

29.120.40 Sklopke

Europska normizacija CENELEC

- EN IEC 61058-2-6:2019
Switches for appliances – Part 2-6: Particular requirements for switches used in electric motor-operated hand-held tools, transportable tools and lawn and garden machinery (IEC 61058-2-6:2018)

Međunarodna normizacija IEC

- IEC 60934:2019
Circuit-breakers for equipment (CBE)
- IEC 60947-9-1:2019
Low-voltage switchgear and controlgear – Part 9-1: Active arc-fault mitigation systems – Arc quenching devices
- IEC 61020-1:2019
Electromechanical switches for use in electrical and electronic equipment – Part 1: Generic specification

29.120.50 Osigurači i ostale naprave za nadstrujnu zaštitu

Europska normizacija CENELEC

- EN 60898-1:2019
Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation (IEC 60898-1:2015, modified)

Međunarodna normizacija IEC

- IEC 60691 AMD 1:2019
Thermal-links – Requirements and application guide; Amendment 1
- IEC 60691 Edition 4.1:2019
Thermal-links – Requirements and application guide

29.130.20 Niskonaponski rasklopni i upravljački uređaji

Međunarodna normizacija IEC

IEC 60947-7-4:2019
Low-voltage switchgear and controlgear – Part 7-4: Ancillary equipment – PCB terminal blocks for copper conductors

IEC 60947-9-1:2019
Low-voltage switchgear and controlgear – Part 9-1: Active arc-fault mitigation systems – Arc quenching devices

29.140.30 Fluorescentne svjetiljke. Svjetiljke s izbojem

Međunarodna normizacija IEC

IEC 62386-220:2019
Digital addressable lighting interface – Part 220: Particular requirements for control gear – Centrally supplied emergency operation (device type 19)

29.140.99 Ostale norme koje se odnose na svjetiljke

Međunarodna normizacija IEC

IEC 62717 AMD 2:2019
LED modules for general lighting – Performance requirements

IEC 62717 Edition 1.2:2019
LED modules for general lighting – Performance requirements

29.160.01 Rotacijski strojevi općenito

Međunarodna normizacija IEC

IEC 60034-23:2019
Rotating electrical machines – Part 23: Repair, overhaul and reclamation

29.180 Transformatori. Prigušnice

Međunarodna normizacija IEC

IEC 60076-22-1:2019
Power transformers – Part 22-1: Power transformer and reactor fittings – Protective devices

IEC 60076-22-2:2019
Power transformers – Part 22-2: Power transformer and reactor fittings – Removable radiators

29.200 Ispravljači. Pretvarači. Stabilizirano napajanje

Međunarodna normizacija IEC

IEC 62747 AMD 1:2019
Terminology for voltage-sourced converters (VSC) for high-voltage direct current (HVDC) systems

IEC 62747 Edition 1.1:2019
Terminology for voltage-sourced converters (VSC) for high-voltage direct current (HVDC) systems

29.220.10 Primarni članci i baterije

Međunarodna normizacija IEC

IEC 62899-501-1:2019
Printed electronics – Part 501-1: Quality assessment – Failure modes and mechanical testing – Flexible or bendable primary or secondary cells

29.220.30 Alkalni sekundarni članci i baterije

Međunarodna normizacija IEC

IEC 62899-501-1:2019
Printed electronics – Part 501-1: Quality assessment – Failure modes and mechanical testing – Flexible or bendable primary or secondary cells

29.220.99 Ostali članci i baterije

Međunarodna normizacija IEC

IEC 62899-501-1:2019
Printed electronics – Part 501-1: Quality assessment – Failure modes and mechanical testing – Flexible or bendable primary or secondary cells

29.240.01 Mreže za prijenos i razdiobu električne energije općenito

Međunarodna normizacija IEC

IEC 60050-691 AMD 1:2019
International Electrotechnical Vocabulary (IEV) – Part 691: Tariffs for electricity; Amendment 1

31.020 Elektronički sastavni dijelovi općenito

Međunarodna normizacija IEC

IEC 60286-3:2019
Packaging of components for automatic handling – Part 3: Packaging of surface mount components on continuous tapes

31.060.20 Keramički kondenzatori i kondenzatori s tinjcem

Međunarodna normizacija IEC

IEC 60384-21:2019
Fixed capacitors for use in electronic equipment – Part 21: Sectional specification – Fixed surface mount multilayer capacitors of ceramic dielectric, Class 1

IEC 60384-22:2019
Fixed capacitors for use in electronic equipment – Part 22: Sectional specification – Fixed surface mount multilayer capacitors of ceramic dielectric, Class 2

31.080.01 Poluvodičke naprave općenito

Međunarodna normizacija IEC

IEC 62047-32:2019
Semiconductor devices – Micro-electromechanical devices – Part 32: Test method for the nonlinear vibration of MEMS resonators

IEC 63068-1:2019
Semiconductor devices – Non-destructive recognition criteria of defects in silicon carbide homoepitaxial wafer for power devices – Part 1: Classification of defects

IEC 63068-2:2019
Semiconductor devices – Non-destructive recognition criteria of defects in silicon carbide homoepitaxial wafer for power devices – Part 2: Test method for defects using optical inspection

31.120 Elektronički uređaji za prikazivanje

Međunarodna normizacija
IEC

IEC 61747-30-5:2019
Liquid crystal display devices – Part 30-5: Optical measuring methods of transmissive transparent LCD modules

31.140 Piezoelektrične naprave

Međunarodna normizacija
IEC

IEC 60122-4:2019
Quartz crystal units of assessed quality – Part 4: Crystal units with thermistors

31.180 Tiskani krugovi i pločice

Međunarodna normizacija
IEC

IEC 62899-202-3:2019
Printed electronics – Part 202-3: Materials – Conductive ink – Measurement of sheet resistance of conductive films – Contactless method

31.200 Integrirani krugovi. Mikroelektronika

Međunarodna normizacija
IEC

IEC 63068-2:2019
Semiconductor devices – Non-destructive recognition criteria of defects in silicon carbide homoepitaxial wafer for power devices – Part 2: Test method for defects using optical inspection

31.220.01 Elektromehanički sastavni dijelovi općenito

Međunarodna normizacija
IEC

IEC 62047-32:2019
Semiconductor devices – Micro-electromechanical devices – Part 32: Test method for the nonlinear vibration of MEMS resonators

31.220.10 Utikačke i utičničke naprave. Konektori

Međunarodna normizacija
IEC

IEC 60603-7 AMD 2:2019
Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors; Amendment 2

IEC 60603-7 Edition 3.2:2019
Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors

IEC 61076-1 AMD 1:2019
Connectors for electronic equipment – Product requirements – Part 1: Generic specification; Amendment 1

IEC 61076-1 Edition 2.1:2019
Connectors for electronic equipment – Product requirements – Part 1: Generic specification

31.220.20 Sklopke

Međunarodna normizacija
IEC

IEC 61020-1:2019
Electromechanical switches for use in electrical and electronic equipment – Part 1: Generic specification

31.240 Mehaničke konstrukcije za elektroničku opremu

Međunarodna normizacija
IEC

IEC 60286-3:2019
Packaging of components for automatic handling – Part 3: Packaging of surface mount components on continuous tapes

33.020 Telekomunikacije općenito

Europska normizacija
ETSI

EN 303560 V 1.1.1:2018
Digital Video Broadcasting (DVB) – TTML subtitling systems

EN 305174-5-1 V 1.3.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Broadband Deployment and Lifecycle Resource Management – Part 5: Customer network infrastructures – Sub-part 1: Homes (single-tenant)

ETSI SR 000314 V 2.24.1:2018
Intellectual Property Rights (IPRs) – Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards

ETSI TS 102950-1 V 1.7.1:2018
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 1: Implementation Conformance Statement (ICS)

ETSI TS 102950-2 V 1.7.1:2018
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 2: Test Suite Structure and Test Purposes (TSS & TP)

ETSI TS 102950-3 V 1.7.1:2018
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite – Part 3: Abstract Test Suite (ATS) and Implementation eXtra Information for Testing (IXIT)

ETSI TS 103253 V 1.4.1:2018
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite for use of XML schema – Implementation Conformance Statement

ETSI TS 103254 V 1.4.1:2018
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite for use of XML schema – Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 103255 V 1.4.1:2018
Methods for Testing and Specification (MTS) – TTCN-3 Conformance Test Suite for use of XML schema – Abstract Test Suite & IXIT

ETSI ES 201873-1 V 4.10.1:2018
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 1: TTCN-3 Core Language

ETSI ES 201873-6 V 4.10.1:2018
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 6: TTCN-3 Control Interface (TCI)

- ETSI ES 201873-7 V 4.7.1:2018
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 7: Using ASN.1 with TTCN-3
- ETSI ES 201873-9 V 4.9.1:2018
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 9: Using XML schema with TTCN-3
- ETSI ES 201873-11 V 4.8.1:2018
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – Part 11: Using JSON with TTCN-3
- ETSI ES 202781 V 1.6.1:2018
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 Language Extensions: Configuration and Deployment Support
- ETSI ES 202785 V 1.6.1:2018
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 Language Extensions: Behaviour Types
- ETSI ES 203022 V 1.2.1:2018
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 extension: Advanced Matching

33.040.01 Telekomunikacijski sustavi općenito

Europska normizacija ETSI

- EN 305200-2-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 1: ICT Sites
- EN 305200-2-2 V 1.2.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 2: Fixed broadband access networks
- EN 305200-2-3 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 3: Mobile broadband access networks
- EN 305200-3-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 3: ICT Sites – Sub-part 1: DCEM
- EN 305200-4-4 V 1.1.1:2018
Integrated broadband cable telecommunication networks (CABLE) – Energy management – Operational infrastructures – Global KPIs – Part 4: Design assessments – Sub-part 4: Cable Access Networks
- EN 319522-1 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 1: Framework and Architecture
- EN 319522-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 2: Semantic contents
- EN 319522-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 3: Formats
- EN 319522-4-1 V 1.2.1:2019
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 1: Message delivery bindings
Ersatz für EN 319522-4-1 V 1.1.1:2018
- EN 319522-4-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 3: Capability/requirements bindings

- EN 319531 V 1.1.1:2019
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Registered Electronic Mail Service Providers
- EN 319532-1 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 1: Framework and architecture
- EN 319532-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 2: Semantic contents
- EN 319532-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 3: Formats
- EN 319532-4 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 4: Interoperability profiles
- ETSI TR 101578 V 1.3.1:2018
Speech and multimedia Transmission Quality (STQ) – QoS aspects of TCP-based video services like YouTubeTM
- ETSI TS 102250-8-1 V 1.1.1:2018
Speech and multimedia Transmission Quality (STQ) – QoS aspects for popular services in mobile networks – Part 8: Formalized definition of Quality of Service parameters and their computation – Sub-part 1: General aspects and terminology
- ETSI TS 102706-2 V 1.5.1:2018
Environmental Engineering (EE) – Metrics and Measurement Method for Energy Efficiency of Wireless Access Network Equipment – Part 2: Energy Efficiency – dynamic measurement method
- ETSI TS 102845 V 2.0.0:2018
User Group – Quality of ICT Services – Requirements for Check-up on Metering and Billing Processes
- ETSI TS 102924 V 1.2.1:2018
Speech and multimedia Transmission Quality (STQ) – Transmission requirements for Super-Wideband / Fullband handset and headset terminals from a QoS perspective as perceived by the user
- ETSI TS 102925 V 1.2.1:2018
Speech and multimedia Transmission Quality (STQ) – Transmission requirements for Super-Wideband / Fullband handsfree and conferencing terminals from a QoS perspective as perceived by the user
- ETSI TS 102929 V 2.3.1:2018
Speech and multimedia Transmission Quality (STQ) – Procedures for the identification and selection of common modes of de-jitter buffers and echo cancellers
- ETSI TS 103106 V 1.5.1:2018
Speech and multimedia Transmission Quality (STQ) – Speech quality performance in the presence of background noise: Background noise transmission for mobile terminals-objective test methods
- ETSI TR 103138 V 1.5.1:2018
Speech and multimedia Transmission Quality (STQ) – Speech samples and their use for QoS testing
- ETSI TS 103222-1 V 1.2.1:2018
Speech and multimedia Transmission Quality (STQ) – Reference benchmarking, background traffic profiles and KPIs – Part 1: Reference benchmarking, background traffic profiles and KPIs for VoIP and FoIP in fixed networks
- ETSI TR 103467 V 1.1.1:2018
Speech and multimedia Transmission Quality (STQ) – Quality of Service aspects for IoT – Discussion of QoS aspects of services related to the IoT ecosystem
- ETSI TR 103468 V 1.1.1:2018
Speech and multimedia Transmission Quality (STQ) – Quality of Service aspects for 5G – Discussion of QoS aspects of services related to the 5G ecosystem
- ETSI TS 103478 V 1.1.1:2018
Emergency Communications (EMTEL) – Pan-European Mobile Emergency Application

ETSI TR 103482 V 1.1.1:2018
Speech and multimedia Transmission Quality (STQ)
– Framework for multi-service testing

ETSI TR 103488 V 1.1.1:2019
Speech and Multimedia Transmission Quality (STQ)
– Guidelines on OTT Video Streaming – Service Quality Evaluation Procedures

ETSI TR 103501 V 1.1.1:2018
Speech and multimedia Transmission Quality (STQ)
– Guidelines for the Measurement of Data Throughput on Devices connected to Mobile Networks

ETSI TR 103503 V 1.2.1:2018
Speech and multimedia Transmission Quality (STQ)
– Procedures for Multimedia Transmission Quality Testing with Parallel Task including Subjective Testing

ETSI TS 103531 V 1.1.1:2018
Environmental Engineering (EE) – Impact on ICT equipment architecture of multiple AC, -48 VDC or up to 400 VDC power inputs

ETSI TR 103540 V 1.1.1:2018
Environmental Engineering (EE) – Mobile Network (MN) Energy Consumption (EC) estimation method – Energy estimation method based on statistical approach

ETSI TR 103541 V 1.1.1:2018
Environmental Engineering (EE) – Best practice to assess energy performance of future Radio Access Network (RAN) deployment

ETSI TR 103542 V 1.1.1:2018
Environmental Engineering (EE) – Study on methods and metrics to evaluate energy efficiency for future 5G systems

ETSI TS 103556 V 1.1.1:2018
Speech and multimedia Transmission Quality (STQ) – DTMF transmission over VoIP using RTP Telephony Events

ETSI TS 103557 V 1.1.1:2018
Speech and multimedia Transmission Quality (STQ)
– Methods for reproducing reverberation for communication device measurements

ETSI TS 103737 V 1.3.1:2018
Speech and multimedia Transmission Quality (STQ)
– Transmission requirements for narrowband wireless terminals (handset and headset) from a QoS perspective as perceived by the user

ETSI TS 103738 V 1.3.1:2018
Speech and multimedia Transmission Quality (STQ)
– Transmission requirements for narrowband wireless terminals (handsfree) from a QoS perspective as perceived by the user

ETSI TS 103739 V 1.3.1:2018
Speech and multimedia Transmission Quality (STQ)
– Transmission requirements for wideband wireless terminals (handset and headset) from a QoS perspective as perceived by the user

ETSI TS 103740 V 1.3.1:2018
Speech and multimedia Transmission Quality (STQ)
– Transmission requirements for wideband wireless terminals (handsfree) from a QoS perspective as perceived by the user

ETSI TS 119102-1 V 1.2.1:2018
Electronic Signatures and Infrastructures (ESI) – Procedures for Creation and Validation of AdES Digital Signatures – Part 1: Creation and Validation

ETSI TS 119102-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Procedures for Creation and Validation of AdES Digital Signatures – Part 2: Signature Validation Report

ETSI TS 119312 V 1.2.2:2018
Electronic Signatures and Infrastructures (ESI) – Cryptographic Suites

ETSI TS 119403-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Trust Service Provider Conformity Assessment – Part 2: Additional requirements for Conformity Assessment Bodies auditing Trust Service Providers that issue Publicly-Trusted Certificates

ETSI TR 119411-4 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 4: Checklist supporting audit of TSP against ETSI EN 319 411-1 or ETSI EN 319 411-2

ETSI TS 119412-1 V 1.2.1:2018
Electronic Signatures and Infrastructures (ESI) – Certificate Profiles – Part 1: Overview and common data structures

ETSI TS 119431-1 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for trust service providers – Part 1: TSP service components operating a remote QSCD / SCDev

ETSI TS 119431-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for trust service providers – Part 2: TSP service components supporting AdES digital signature creation

ETSI TS 119441 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Policy requirements for TSP providing signature validation services

ETSI TS 119495 V 1.2.1:2018
Electronic Signatures and Infrastructures (ESI) – Sector Specific Requirements – Qualified Certificate Profiles and TSP Policy Requirements under the payment services Directive (EU) 2015/2366

ETSI EG 202396-3 V 1.7.1:2018
Speech and multimedia Transmission Quality (STQ) – Speech Quality performance in the presence of background noise – Part 3: Background noise transmission – Objective test methods

ETSI ES 203474 V 1.1.1:2018
Environmental Engineering (EE) – Interfacing of renewable energy or distributed power sources to 400 VDC distribution systems powering Information and Communication Technology (ICT) equipment

ETSI GR OEU 029 V 1.1.1:2019
Energy Efficient IP Video Surveillance Systems over Coaxial Cables

ETSI GS OEU 005 V 1.1.1:2018
Operational energy Efficiency for Users (OEU) – Data Management for Global KPI of ICT Site Energy Management

33.040.20 Prijenosni sustavi

Europska normizacija ETSI

ETSI TS 110174-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM)
– Sustainable Digital Multiservice Cities (SDMC) – Broadband Deployment and Energy Management – Part 1: Overview, common and generic aspects of societal and technical pillars for sustainability

33.040.35 Telefonske mreže

Europska normizacija ETSI

ETSI SR 003292 V 1.2.1:2018
Lawful Interception (LI) – IMS and LTE FAQ and Guidance

ETSI TS 102232-1 V 3.18.1:2018
Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 1: Handover specification for IP delivery

ETSI TS 102232-5 V 3.9.1:2018
Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 5: Service-specific details for IP Multimedia Services

ETSI TS 102232-7 V 3.5.1:2018
Lawful Interception (LI) – Handover Interface and Service-Specific Details (SSD) for IP delivery – Part 7: Service-specific details for Mobile Services

ETSI TR 102503 V 1.12.1:2018
Lawful Interception (LI) – ASN.1 Object Identifiers in Lawful Interception and Retained data handling Specifications

ETSI TS 102657 V 1.22.1:2018
Lawful Interception (LI) – Retained data handling – Handover interface for the request and delivery of retained data

ETSI TS 103221-1 V 1.3.1:2018
Lawful Interception (LI) – Part 1: Internal Network Interface X1 for Lawful Interception

ETSI TS 103280 V 2.2.1:2018
Lawful Interception (LI) – Dictionary for common parameters

ETSI TS 103462 V 1.1.1:2018
Lawful Interception (LI) – Inter LEMF Handover Interface

33.040.40 Mreže za prenos podataka

Europska normizacija

ETSI

ETSI TS 110174-2-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Sustainable Digital Multiservice Cities – Broadband Deployment and Energy Management – Part 2: Multiservice Networking Infrastructure and Associated Street Furniture – Sub-part 1: General requirements

ETSI GS NFV-IFA 002 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Acceleration Technologies – VNF Interfaces Specification

ETSI GS NFV-IFA 003 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Acceleration Technologies – vSwitch Benchmarking and Acceleration Specification

ETSI GS NFV-IFA 004 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Acceleration Technologies – Management Aspects Specification

ETSI GS NFV-IFA 005 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Or-Vi reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 005 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Or-Vi reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 005 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Or-Vi reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 006 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Vi-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 006 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Vi-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 006 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Vi-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 007 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Or-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 007 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Or-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 007 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Or-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 008 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Ve-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 008 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Ve-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 008 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Ve-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 010 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Functional requirements specification

ETSI GS NFV-IFA 010 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Functional requirements specification

ETSI GS NFV-IFA 010 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Functional requirements specification

ETSI GS NFV-IFA 011 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – VNF Descriptor and Packaging Specification

ETSI GS NFV-IFA 011 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – VNF Descriptor and Packaging Specification

ETSI GS NFV-IFA 011 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – VNF Descriptor and Packaging Specification

ETSI GS NFV-IFA 013 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Os-Ma-Nfvo reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 013 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Os-Ma-Nfvo reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 013 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Os-Ma-Nfvo reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 014 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Network Service Templates Specification

ETSI GS NFV-IFA 014 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Network Service Templates Specification

ETSI GS NFV-IFA 014 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Network Service Templates Specification

ETSI GS NFV-SOL 002 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Ve-Vnfm Reference Point

ETSI GS NFV-SOL 002 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Ve-Vnfm Reference Point

ETSI GS NFV-SOL 003 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Or-Vnfm Reference Point

- ETSI GS NFV-SOL 003 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – RESTful protocols specification for the Or-Vnfm Reference Point
- ETSI GS NFV-SOL 004 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – VNF Package specification
- ETSI GS NFV-SOL 004 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols and Data Models – VNF Package specification
- ETSI GS NFV 003 V 1.4.1:2018
Network Functions Virtualisation (NFV) – Terminology for Main Concepts in NFV
- ETSI GS NGP 001 V 1.3.1:2019
Next Generation Protocols (NGP) – Scenario Definitions

33.040.60 Telekomunikacije putem elektroenergetskih vodova

Europska normizacija ETSI

- ETSI TS 104001 V 2.2.1:2019
Open Smart Grid Protocol (OSGP) – Smart Metering/Smart Grid Communication Protocol

33.040.99 Ostala oprema za komunikacijske sustave

Europska normizacija ETSI

- ETSI TS 101585 V 2.1.1:2018
Core Network and Interoperability Testing (INT) – IMS interconnection tests at the Iu Interface – (3GPPTM Release 13) – Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TS 101588-1 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 1: Protocol Implementation Conformance Statement (PICS)
- ETSI TS 101588-2 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TS 101594-1 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 1: Protocol Implementation Conformance Statement (PICS)
- ETSI TS 101594-2 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TS 101595-1 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 1: Protocol Implementation Conformance Statement (PICS)
- ETSI TS 101595-2 V 6.1.1:2019
Core Network and Interoperability Testing (INT) – Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

- ETSI TS 101597-1 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 1: Protocol Implementation Conformance Statement (PICS)
- ETSI TS 101597-2 V 2.1.1:2019
Core Network and Interoperability Testing (INT) – Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TS 102891-1 V 4.1.1:2018
Core Network and Interoperability Testing (INT) – Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 1: Protocol Implementation Conformance Statement (PICS)
- ETSI TS 102891-2 V 4.1.1:2018
Core Network and Interoperability Testing (INT) – Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)
- ETSI TR 103305-1 V 3.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 1: The Critical Security Controls
- ETSI TR 103305-2 V 2.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 2: Measurement and auditing
- ETSI TR 103305-3 V 2.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 3: Service Sector Implementations
- ETSI TR 103305-4 V 2.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 4: Facilitation Mechanisms
- ETSI TR 103305-5 V 1.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 5: Privacy enhancement
- ETSI TR 103306 V 1.3.1:2018
CYBER – Global Cyber Security Ecosystem
- ETSI TS 103307 V 1.3.1:2018
CYBER – Security Aspects for LI and RD Interfaces
- ETSI TR 103370 V 1.1.1:2019
Practical introductory guide to Technical Standards for Privacy
- ETSI TS 103457 V 1.1.1:2018
CYBER – Trusted Cross-Domain Interface: Interface to offload sensitive functions to a trusted domain
- ETSI TS 103458 V 1.1.1:2018
CYBER – Application of Attribute Based Encryption (ABE) for PII and personal data protection on IoT devices, WLAN, cloud and mobile services – High level requirements
- ETSI TS 103523-3 V 1.1.1:2018
CYBER – Middlebox Security Protocol – Part 3: Profile for enterprise network and data centre access control
- ETSI TS 103530-2 V 1.1.1:2018
Core Network and Interoperability Testing (INT) – NAS Conformance Testing for the S1-MME interface – (3GPPTM Release 13) – Part 2: Test Suite Structure (TSS) and Test Purposes (TP)
- ETSI TS 103530-3 V 1.1.1:2018
Core Network and Interoperability Testing (INT) – NAS Conformance Testing for the S1-MME interface – (3GPPTM Release 13) – Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) pro forma specification
- ETSI TS 103532 V 1.1.1:2018
CYBER – Attribute Based Encryption for Attribute Based Access Control
- ETSI TR 103642 V 1.1.1:2018
CYBER – Security techniques for protecting software in a white box model

ETSI TS 186006-2 V 5.1.1:2018
Core Network and Interoperability Testing (INT) – Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test specification – (3GPPTM Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 186017-1 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 186017-2 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance Test Specification (3GPPTM Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI TS 186022-1 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPPTM Release 12) – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 186022-2 V 6.1.1:2018
Core Network and Interoperability Testing (INT) – Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem – Conformance test specification (3GPPTM Release 12) – Part 2: Test Suite Structure and Test Purposes (TSS&TP)

ETSI GS ISI 007 V 1.1.1:2018
Information Security Indicators (ISI) – Guidelines for building and operating a secured Security Operations Center (SOC)

ETSI GS ISI 008 V 1.1.1:2018
Information Security Indicators (ISI) – Description of an Overall Organization-wide Security Information and Event Management (SIEM) Approach

33.050.01 Telekomunikacijska terminalna oprema općenito

Europska normizacija ETSI

EN 300019-2-4 V 2.5.1:2018
Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment – Part 2-4: Specification of environmental tests – Stationary use at non-weatherprotected locations

EN 303423 V 1.2.1:2018
Environmental Engineering (EE) – Electrical and electronic household and office equipment – Measurement of networked standby power consumption of Interconnecting equipment – Harmonised Standard covering the measurement method for EC Regulation 1275/2008 amended by EU Regulation 801/2013

EN 305174-8 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Broadband Deployment and Lifecycle Resource Management – Part 8: Management of end of life of ICT equipment (ICT waste/end of life)

33.060.01 Radiokomunikacije općenito

Europska normizacija ETSI

EN 302245 V 2.1.1:2018
Transmitting equipment for the Digital Radio Mondiale (DRM) sound broadcasting service – Harmonised Standard for access to radio spectrum

EN 302969 V 1.3.1:2018
Reconfigurable Radio Systems (RRS) – Radio Reconfiguration related requirements for Mobile Devices

EN 303095 V 1.3.1:2018
Reconfigurable Radio Systems (RRS) – Radio reconfiguration related architecture for Mobile Devices (MD)

EN 305200-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Energy management – Operational infrastructures – Global KPIs – Part 1: General requirements

ETSI TR 103552 V 1.2.1:2019
Study item on VHF Data Link Mode 2 ground-based equipment standardization optimization – Evolution of Data Link European Norms

ETSI TR 103587 V 1.1.1:2018
Reconfigurable Radio Systems (RRS) – Feasibility study of a Radio Interface Engine (RIE)

ETSI GR mWT 008 V 1.1.1:2018
millimetre Wave Transmission (mWT) – Analysis of Spectrum, License Schemes and Network Scenarios in the D-band

ETSI GR mWT 010 V 1.1.1:2018
3D RayTracing Interference Analysis in V-Band

33.060.20 Prijamna i odašiljačka oprema

Europska normizacija ETSI

EN 300220-2 V 3.2.1:2018
Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment

EN 300440 V 2.2.1:2018
Short Range Devices (SRD) – Radio equipment to be used in the 1 GHz to 40 GHz frequency range – Harmonised Standard for access to radio spectrum

EN 300698 V 2.3.1:2018
Radio telephone transmitters and receivers for the maritime mobile service operating in the VHF bands used on inland waterways – Harmonised Standard for access to radio spectrum and for features for emergency services

EN 300718-1 V 2.1.1:2018
Avalanche Beacons operating at 457 kHz – Transmitter-receiver systems – Part 1: Harmonised Standard for access to radio spectrum

EN 302245 V 2.1.1:2018
Transmitting equipment for the Digital Radio Mondiale (DRM) sound broadcasting service – Harmonised Standard for access to radio spectrum

EN 302296 V 2.1.1:2017
Digital Terrestrial TV Transmitters – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 305174-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Broadband Deployment and Lifecycle Resource Management – Part 1: Overview, common and generic aspects

EN 305174-2 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Broadband Deployment and Lifecycle Resource Management – Part 2: ICT Sites

EN 305174-5-1 V 1.3.1:2018
Access, Terminals, Transmission and Multiplexing (ATTM) – Broadband Deployment and Lifecycle Resource Management – Part 5: Customer network infrastructures – Sub-part 1: Homes (single-tenant)

ETSI TR 103585 V 1.1.1:2018
Reconfigurable Radio Systems (RRS) – Radio Equipment Reconfiguration Use Cases

33.060.30 Radioreleji i nepomični satelitski komunikacijski sustavi

Europska normizacija CENELEC

EN IEC 63135:2019
Maritime navigation and radiocommunication equipment and systems – Automatic identification systems (AIS) – SAR Airborne equipment – Operational and performance requirements, methods of test and required test results (IEC 63135:2018)

ETSI TR 102457 V 2.1.0:2018
Fixed Radio Systems – Evaluation of the ElectroMagnetic Field (EMF) radiated by Line-of-Sight (LoS) fixed radio stations using parabolic dish directional antennas

33.060.40 Kabelski distribucijski sustavi

Europska normizacija ETSI

ETSI TS 101548-1 V 2.2.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – European Requirements for Reverse Powering of Remote Access Equipment – Part 1: Twisted pair networks

ETSI TS 103247 V 1.2.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Singlemode Optical Fibre System Specifications for Home Cabling

ETSI ES 205200-2-2 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Energy management – Global KPIs – Operational infrastructures – Part 2: Specific requirements – Sub-part 2: Fixed broadband access networks

33.060.99 Ostala oprema za radiokomunikacije

Europska normizacija ETSI

EN 303146-1 V 1.3.1:2018
Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 1: Multiradio Interface (MURI)

EN 303146-3 V 1.3.1:2018
Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 3: Unified Radio Application Interface (URAI)

ETSI TS 103436 V 1.2.1:2018
Reconfigurable Radio Systems (RRS) – Security requirements for reconfigurable radios

33.070.01 Usluge pokretne mreže općenito

Europska normizacija ETSI

ETSI TS 103412 V 1.2.1:2018
Mobile Standards Group (MSG) – Pan-European eCall end to end and in-band modem conformance testing – Prose test specification

33.070.10 Terestrijalni trunking radio (TETRA)

Europska normizacija ETSI

ETSI TS 100392-1 V 1.5.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 1: General network design

ETSI TS 100392-2 V 3.9.1:2019
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 2: Air Interface (AI)

ETSI TS 100392-3-8 V 1.3.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 8: Generic Speech Format Implementation

ETSI TS 100392-3-9 V 1.1.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 9: Transport layer independent, General design

ETSI TS 100392-3-10 V 1.1.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 10: General design, PSS1 over E.1

ETSI TS 100392-3-11 V 1.1.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 11: General design, SIP/IP

ETSI TS 100392-3-12 V 1.1.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 12: Transport layer independent Additional Network Feature Individual Call (ANF-ISIIC)

ETSI TS 100392-3-13 V 1.1.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 13: Transport layer independent Additional Network Feature Group Call (ANF-ISIGC)

ETSI TS 100392-3-14 V 1.1.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 14: Transport layer independent Additional Network Feature Short Data Service (ANF-ISISDS)

ETSI TS 100392-3-15 V 1.1.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 3: Interworking at the Inter-System Interface (ISI) – Sub-part 15: Transport layer independent Additional Network Feature, Mobility Management (ANF-ISIMM)

ETSI TS 100392-5 V 2.6.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) and Direct Mode Operation (DMO) – Part 5: Peripheral Equipment Interface (PEI)

ETSI TS 100392-9 V 1.6.1:2018
Terrestrial Trunked Radio (TETRA) – Voice plus Data (V+D) – Part 9: General requirements for supplementary services

ETSI TR 100392-17-6 V 1.1.1:2018
TETRA and Critical Communications Evolution (TCCE) – Part 17: TETRA V+D, DMO and associated specifications – Sub-part 6: Release 2.2

ETSI TR 103565-1 V 1.2.1:2018
TETRA and Critical Communications Evolution (TCCE) – Interworking between TETRA and 3GPP mission critical services Part 1: General considerations for interworking

ETSI TR 103565-2 V 1.1.1:2018
TETRA and Critical Communications Evolution (TCCE) – Interworking between TETRA and 3GPP mission critical services Part 2: Security of interworking between TETRA and Broadband applications

33.070.30 Digitalne poboljšane bežične telekomunikacije (DECT)

Europska normizacija ETSI

EN 300444 V 2.5.1:2017
Digital Enhanced Cordless Telecommunications (DECT) – Generic Access Profile (GAP)

EN 300700 V 2.2.1:2018
Digital Enhanced Cordless Telecommunications (DECT) – Wireless Relay Station (WRS)

EN 305174-5-1 V 1.3.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Broadband Deployment and Lifecycle Resource Management – Part 5: Customer network infrastructures – Sub-part 1: Homes (single-tenant)

ETSI TS 102497 V 1.2.1:2018
Digital Enhanced Cordless Telecommunications (DECT)
– DECT in the 1920 MHz to 1930 MHz Unlicensed Personal
Communications Services (UPCS) frequency band – Specific
requirements

ETSI TS 102939-2 V 1.3.1:2019
Digital Enhanced Cordless Telecommunications (DECT)
– Ultra Low Energy (ULE) – Machine to Machine
Communications – Part 2: Home Automation Network (phase 2)

ETSI TR 103514 V 1.1.1:2018
Digital Enhanced Cordless Telecommunications (DECT)
– DECT-2020 New Radio (NR) interface – Study on Physical
(PHY) layer

ETSI TR 103515 V 1.1.1:2018
Digital Enhanced Cordless Telecommunications (DECT)
– Study on URLLC use cases of vertical industries for DECT
evolution and DECT-2020

ETSI TR 103590 V 1.1.1:2018
Higher Order Ambisonics (HOA) Transport Format

33.070.40 Sateliti

Europska normizacija ETSI

ETSI TR 103956 V 1.1.1:2018
Satellite Earth Stations and Systems (SES) – Technical
analysis for the Radio Frequency, Modulation and Coding for
Telemetry Command and Ranging (TCR) of Communications
Satellites

33.070.50 Globalni sustavi za pokretne komunikacije (GSM)

Europska normizacija ETSI

EN 301515 V 3.0.0:2018
Global System for Mobile communication (GSM)
– Requirements for GSM operation on railways

ETSI TS 102281 V 3.1.1:2019
Rail Telecommunications (RT) – Global System for Mobile
communications (GSM) – Detailed requirements for GSM
operation on Railways

ETSI TR 103459 V 1.1.1:2019
Rail Telecommunications (RT) – Future Rail Mobile
Communication System (FRMCS) – Study on system
architecture

ETSI TR 103554 V 1.1.1:2018
Rail Telecommunications (RT) – Next Generation
Communication System – LTE radio performance simulations
and evaluations in rail environment

ETSI TS 121101 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Technical
Specifications and Technical Reports for a UTRAN-based 3GPP
system (3GPP TS 21.101 version 15.0.0 Release 15)

ETSI TS 121111 V 15.1.1:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– USIM and IC card requirements (3GPP TS 21.111 version
15.1.1 Release 15)

ETSI TS 121201 V 15.0.0:2018
LTE – Technical Specifications and Technical Reports for
an Evolved Packet System (EPS) based 3GPP system
(3GPP TS 21.201 version 15.0.0 Release 15)

ETSI TS 121202 V 15.0.0:2018
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 15.0.0 Release 15)

ETSI TS 121205 V 15.0.0:2018
5G – Technical Specifications and Technical Reports for a 5G
based 3GPP system (3GPP TS 21.205 version 15.0.0 Release 15)

ETSI TR 121900 V 14.2.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Technical Specification Group working methods
(3GPP TR 21.900 version 14.2.0 Release 14)

ETSI TR 121900 V 15.1.1:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Technical Specification Group working methods
(3GPP TR 21.900 version 15.1.1 Release 15)

ETSI TR 121905 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Vocabulary for 3GPP Specifications
(3GPP TR 21.905 version 15.0.0 Release 15)

ETSI TR 121914 V 14.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – 5G – Release description – Release 14
(3GPP TR 21.914 version 14.0.0 Release 14)

ETSI TS 122001 V 15.0.0:2018
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 15.0.0 Release 15)

ETSI TS 122002 V 15.0.0:2018
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 15.0.0 Release 15)

ETSI TS 122003 V 15.0.0:2018
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 15.0.0 Release 15)

ETSI TS 122004 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – General on supplementary services
(3GPP TS 22.004 version 15.0.0 Release 15)

ETSI TS 122011 V 14.8.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Service accessibility (3GPP TS 22.011 version 14.8.0
Release 14)

ETSI TS 122011 V 15.5.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Service accessibility (3GPP TS 22.011 version 15.5.0
Release 15)

ETSI TS 122016 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – International Mobile station Equipment Identities
(IMEI) (3GPP TS 22.016 version 15.0.0 Release 15)

ETSI TS 122022 V 15.0.0:2018
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 15.0.0
Release 15)

ETSI TS 122024 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Description of Charge Advice Information (CAI)
(3GPP TS 22.024 version 15.0.0 Release 15)

ETSI TS 122030 V 15.0.0:2018
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 15.0.0 Release 15)

- ETSI TS 122031 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122032 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122034 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122038 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122041 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Operator Determined Barring (ODB) (3GPP TS 22.041 version 15.0.0 Release 15)
- ETSI TS 122042 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122053 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122057 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile Execution Environment (MEExE) – Service description – Stage 1 (3GPP TS 22.057 version 15.0.0 Release 15)
- ETSI TS 122060 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122066 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Support of Mobile Number Portability (MNP) – Service description – Stage 1 (3GPP TS 22.066 version 15.0.0 Release 15)
- ETSI TS 122067 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122071 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Location Services (LCS) – Service description – Stage 1 (3GPP TS 22.071 version 15.0.0 Release 15)
- ETSI TS 122072 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Deflection (CD) service description – Stage 1 (3GPP TS 22.072 version 15.0.0 Release 15)
- ETSI TS 122076 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122078 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122079 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122081 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Line Identification supplementary services – Stage 1 (3GPP TS 22.081 version 15.0.0 Release 15)
- ETSI TS 122082 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Forwarding (CF) Supplementary Services – Stage 1 (3GPP TS 22.082 version 15.0.0 Release 15)
- ETSI TS 122083 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122084 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – MultiParty (MPTY) supplementary service – Stage 1 (3GPP TS 22.084 version 15.0.0 Release 15)
- ETSI TS 122085 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122086 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122087 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122088 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Barring (CB) supplementary services – Stage 1 (3GPP TS 22.088 version 15.0.0 Release 15)
- ETSI TS 122090 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Unstructured Supplementary Service Data (USSD) – Stage 1 (3GPP TS 22.090 version 15.0.0 Release 15)
- ETSI TS 122091 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122093 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122094 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Follow Me service description – Stage 1 (3GPP TS 22.094 version 15.0.0 Release 15)

- ETSI TS 122096 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Name identification supplementary services – Stage 1
(3GPP TS 22.096 version 15.0.0 Release 15)
- ETSI TS 122097 V 15.0.0:2018
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 15.0.0
Release 15)
- ETSI TS 122101 V 15.6.0:2018
Universal Mobile Telecommunications System
(UMTS) – LTE – Service aspects – Service principles
(3GPP TS 22.101 version 15.6.0 Release 15)
- ETSI TS 122105 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Services and service capabilities
(3GPP TS 22.105 version 15.0.0 Release 15)
- ETSI TS 122115 V 15.5.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Service aspects – Charging and billing
(3GPP TS 22.115 version 15.5.0 Release 15)
- ETSI TS 122129 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122135 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Multicall – Service description – Stage 1
(3GPP TS 22.135 version 15.0.0 Release 15)
- ETSI TS 122140 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Multimedia Messaging Service (MMS) – Stage 1
(3GPP TS 22.140 version 15.0.0 Release 15)
- ETSI TS 122153 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications
System (UMTS) – LTE – Multimedia priority service
(3GPP TS 22.153 version 15.0.0 Release 15)
- ETSI TS 122173 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia Core Network Subsystem (IMS)
Multimedia Telephony Service and supplementary services
– Stage 1 (3GPP TS 22.173 version 15.1.0 Release 15)
- ETSI TS 122179 V 15.2.0:2018
LTE – Mission Critical Push to Talk (MCPTT) over LTE
– Stage 1 (3GPP TS 22.179 version 15.2.0 Release 15)
- ETSI TS 122182 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122183 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Customized Ringing Signal (CRS) requirements – Stage 1
(3GPP TS 22.183 version 15.0.0 Release 15)
- ETSI TS 122185 V 14.4.0:2018
LTE – Service requirements for V2X services
(3GPP TS 22.185 version 14.4.0 Release 14)
- ETSI TS 122185 V 15.0.0:2018
LTE – Service requirements for V2X services
(3GPP TS 22.185 version 15.0.0 Release 15)
- ETSI TS 122186 V 15.4.0:2018
5G – Service requirements for enhanced V2X scenarios
(3GPP TS 22.186 version 15.4.0 Release 15)
- ETSI TS 122226 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Global Text Telephony (GTT) – Stage 1
(3GPP TS 22.226 version 15.0.0 Release 15)
- ETSI TS 122228 V 15.3.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Service requirements for the Internet Protocol
(IP) multimedia core network subsystem (IMS) – Stage 1
(3GPP TS 22.228 version 15.3.0 Release 15)
- ETSI TS 122233 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122242 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Digital Rights Management (DRM) – Stage 1
(3GPP TS 22.242 version 15.0.0 Release 15)
- ETSI TS 122246 V 15.0.0:2018
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 15.0.0
Release 15)
- ETSI TS 122250 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122261 V 15.6.0:2018
5G – Service requirements for next generation new services
and markets (3GPP TS 22.261 version 15.6.0 Release 15)
- ETSI TS 122268 V 15.2.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – Public Warning System (PWS) requirements
(3GPP TS 22.268 version 15.2.0 Release 15)
- ETSI TS 122278 V 13.5.0:2018
LTE – Service requirements for the Evolved Packet System
(EPS) (3GPP TS 22.278 version 13.5.0 Release 13)
- ETSI TS 122278 V 14.5.0:2018
LTE – Service requirements for the Evolved Packet System
(EPS) (3GPP TS 22.278 version 14.5.0 Release 14)
- ETSI TS 122278 V 15.4.0:2018
LTE – Service requirements for the Evolved Packet System
(EPS) (3GPP TS 22.278 version 15.4.0 Release 15)
- ETSI TS 122279 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Combined Circuit Switched (CS) and IP
Multimedia Subsystem (IMS) sessions – Stage 1
(3GPP TS 22.279 version 15.0.0 Release 15)
- ETSI TS 122280 V 14.3.1:2018
LTE – Mission Critical Services Common Requirements
(3GPP TS 22.280 version 14.3.1 Release 14)
- ETSI TS 122280 V 15.3.0:2018
LTE – Mission Critical Services Common Requirements
(3GPP TS 22.280 version 15.3.0 Release 15)
- ETSI TS 122281 V 14.4.1:2018
LTE – Mission Critical Video over LTE
(3GPP TS 22.281 version 14.4.1 Release 14)
- ETSI TS 122281 V 15.1.0:2018
LTE – Mission Critical Video over LTE
(3GPP TS 22.281 version 15.1.0 Release 15)
- ETSI TS 122282 V 15.1.0:2018
LTE – Mission Critical Data over LTE
(3GPP TS 22.282 version 15.1.0 Release 15)
- ETSI TS 122340 V 15.0.0:2018
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 15.0.0 Release 15)

- ETSI TS 122346 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 122468 V 15.0.0:2018
LTE – Group Communication System Enablers for LTE (GCSE LTE) (3GPP TS 22.468 version 15.0.0 Release 15)
- ETSI TS 122519 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Business communication requirements (3GPP TS 22.519 version 15.0.0 Release 15)
- ETSI TR 122903 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Study on Videotelephony teleservice (3GPP TR 22.903 version 15.0.0 Release 15)
- ETSI TR 122908 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Study on Paging Permission with Access Control (PPAC) (3GPP TR 22.908 version 15.0.0 Release 15)
- ETSI TR 122912 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 122936 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Multi-system terminals (3GPP TR 22.936 version 15.0.0 Release 15)
- ETSI TR 122940 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) messaging (3GPP TR 22.940 version 15.0.0 Release 15)
- ETSI TR 122942 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 122944 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 122948 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 122949 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Study on a generalized privacy capability (3GPP TR 22.949 version 15.0.0 Release 15)
- ETSI TR 122950 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Priority service feasibility study (3GPP TR 22.950 version 15.0.0 Release 15)
- ETSI TR 122951 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 122952 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Priority service guide (3GPP TR 22.952 version 15.0.0 Release 15)
- ETSI TR 122953 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia priority service feasibility study (3GPP TR 22.953 version 15.0.0 Release 15)
- ETSI TR 122967 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Transferring of emergency call data (3GPP TR 22.967 version 15.0.0 Release 15)
- ETSI TR 122968 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 122973 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 122978 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – All-IP network (AIPN) feasibility study (3GPP TR 22.978 version 15.0.0 Release 15)
- ETSI TR 122979 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 122983 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Services alignment and migration (3GPP TR 22.983 version 15.0.0 Release 15)
- ETSI TR 122985 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Service requirements for the User Data Convergence (UDC) (3GPP TR 22.985 version 15.0.0 Release 15)
- ETSI TR 122986 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Study on Service Specific Access Control (3GPP TR 22.986 version 15.0.0 Release 15)
- ETSI TR 122987 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Study of haptic services requirements (3GPP TR 22.987 version 15.0.0 Release 15)
- ETSI TS 123002 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Network architecture (3GPP TS 23.002 version 15.0.0 Release 15)
- ETSI TS 123003 V 14.7.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 14.7.0 Release 14)
- ETSI TS 123003 V 15.5.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Numbering, addressing and identification (3GPP TS 23.003 version 15.5.0 Release 15)
- ETSI TS 123007 V 14.5.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Restoration procedures (3GPP TS 23.007 version 14.5.0 Release 14)
- ETSI TS 123007 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Restoration procedures (3GPP TS 23.007 version 15.1.0 Release 15)

- ETSI TS 123008 V 15.5.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Organization of subscriber data (3GPP TS 23.008 version 15.5.0 Release 15)
- ETSI TS 123009 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Handover procedures (3GPP TS 23.009 version 15.0.0 Release 15)
- ETSI TS 123011 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Technical realization of Supplementary Services (3GPP TS 23.011 version 15.0.0 Release 15)
- ETSI TS 123012 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Location management procedures (3GPP TS 23.012 version 15.0.0 Release 15)
- ETSI TS 123014 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Support of Dual Tone Multi-Frequency (DTMF) signalling (3GPP TS 23.014 version 15.0.0 Release 15)
- ETSI TS 123015 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Technical realization of Operator Determined Barring (ODB) (3GPP TS 23.015 version 15.0.0 Release 15)
- ETSI TS 123016 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Subscriber data management – Stage 2 (3GPP TS 23.016 version 15.0.0 Release 15)
- ETSI TS 123018 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Basic call handling – Technical realization (3GPP TS 23.018 version 15.0.0 Release 15)
- ETSI TS 123031 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 123032 V 14.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Universal Geographical Area Description (GAD) (3GPP TS 23.032 version 14.1.0 Release 14)
- ETSI TS 123032 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Universal Geographical Area Description (GAD) (3GPP TS 23.032 version 15.1.0 Release 15)
- ETSI TS 123034 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – High Speed Circuit Switched Data (HSCSD) – Stage 2 (3GPP TS 23.034 version 15.0.0 Release 15)
- ETSI TS 123035 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Immediate Service Termination (IST) – Stage 2 (3GPP TS 23.035 version 15.0.0 Release 15)
- ETSI TS 123038 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Alphabets and language-specific information (3GPP TS 23.038 version 15.0.0 Release 15)
- ETSI TS 123040 V 15.2.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Technical realization of the Short Message Service (SMS) (3GPP TS 23.040 version 15.2.0 Release 15)
- ETSI TS 123041 V 15.3.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Technical realization of Cell Broadcast Service (CBS) (3GPP TS 23.041 version 15.3.0 Release 15)
- ETSI TS 123042 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Compression algorithm for text messaging services (3GPP TS 23.042 version 15.0.0 Release 15)
- ETSI TS 123053 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 123057 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Execution Environment (MExE) – Functional description – Stage 2 (3GPP TS 23.057 version 15.0.0 Release 15)
- ETSI TS 123060 V 14.8.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – Service description – Stage 2 (3GPP TS 23.060 version 14.8.0 Release 14)
- ETSI TS 123060 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – General Packet Radio Service (GPRS) – Service description – Stage 2 (3GPP TS 23.060 version 15.4.0 Release 15)
- ETSI TS 123066 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Support of Mobile Number Portability (MNP) – Technical realization – Stage 2 (3GPP TS 23.066 version 15.0.0 Release 15)
- ETSI TS 123067 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – enhanced Multi-Level Precedence and Pre-emption Service (eMLPP) – Stage 2 (3GPP TS 23.067 version 15.0.0 Release 15)
- ETSI TS 123072 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Deflection (CD) supplementary service – Stage 2 (3GPP TS 23.072 version 15.0.0 Release 15)
- ETSI TS 123078 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 – Stage 2 (3GPP TS 23.078 version 15.0.0 Release 15)
- ETSI TS 123079 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Support of Optimal Routing (SOR) – Technical realization (3GPP TS 23.079 version 15.0.0 Release 15)
- ETSI TS 123081 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Line Identification supplementary services – Stage 2 (3GPP TS 23.081 version 15.0.0 Release 15)
- ETSI TS 123082 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Forwarding (CF) supplementary services – Stage 2 (3GPP TS 23.082 version 15.0.0 Release 15)
- ETSI TS 123083 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Waiting (CW) and Call Hold (HOLD) supplementary services – Stage 2 (3GPP TS 23.083 version 15.0.0 Release 15)

- ETSI TS 123084 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Multi Party (MPTY) supplementary service – Stage 2 (3GPP TS 23.084 version 15.0.0 Release 15)
- ETSI TS 123085 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Closed User Group (CUG) supplementary service – Stage 2 (3GPP TS 23.085 version 15.0.0 Release 15)
- ETSI TS 123086 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Advice of Charge (AoC) supplementary services – Stage 2 (3GPP TS 23.086 version 15.0.0 Release 15)
- ETSI TS 123087 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– User-to-User Signalling (UUS) supplementary service – Stage 2 (3GPP TS 23.087 version 15.0.0 Release 15)
- ETSI TS 123088 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Call Barring (CB) Supplementary Services – Stage 2 (3GPP TS 23.088 version 15.0.0 Release 15)
- ETSI TS 123090 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Unstructured Supplementary Service Data (USSD) – Stage 2 (3GPP TS 23.090 version 15.0.0 Release 15)
- ETSI TS 123091 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS)
– Explicit Call Transfer (ECT) supplementary service – Stage 2 (3GPP TS 23.091 version 15.0.0 Release 15)
- ETSI TS 123093 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Technical realization of Completion of Calls to Busy Subscriber (CCBS) – Stage 2 (3GPP TS 23.093 version 15.0.0 Release 15)
- ETSI TS 123094 V 15.0.1:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Follow-Me (FM) – Stage 2 (3GPP TS 23.094 version 15.0.1 Release 15)
- ETSI TS 123096 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Name identification supplementary services – Stage 2 (3GPP TS 23.096 version 15.0.0 Release 15)
- ETSI TS 123097 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Multiple Subscriber Profile (MSP) (Phase X) – Stage 2 (3GPP TS 23.097 version 15.0.0 Release 15)
- ETSI TS 123101 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– General Universal Mobile Telecommunications System (UMTS) architecture (3GPP TS 23.101 version 15.0.0 Release 15)
- ETSI TS 123107 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Quality of Service (QoS) concept and architecture (3GPP TS 23.107 version 15.0.0 Release 15)
- ETSI TS 123108 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Mobile radio interface layer 3 specification, core network protocols – Stage 2 (3GPP TS 23.108 version 15.0.0 Release 15)
- ETSI TS 123110 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Mobile Telecommunications System (UMTS) access stratum – Services and functions (3GPP TS 23.110 version 15.0.0 Release 15)
- ETSI TS 123116 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS)
– Super-Charger technical realization – Stage 2 (3GPP TS 23.116 version 15.0.0 Release 15)
- ETSI TS 123119 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Gateway Location Register (GLR) – Stage 2 (3GPP TS 23.119 version 15.0.0 Release 15)
- ETSI TS 123122 V 14.5.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (3GPP TS 23.122 version 14.5.0 Release 14)
- ETSI TS 123122 V 15.5.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (3GPP TS 23.122 version 15.5.0 Release 15)
- ETSI TS 123135 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Multicall supplementary service – Stage 2 (3GPP TS 23.135 version 15.0.0 Release 15)
- ETSI TS 123139 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – 3GPP system – fixed broadband access network interworking – Stage 2 (3GPP TS 23.139 version 15.0.0 Release 15)
- ETSI TS 123141 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Presence service – Architecture and functional description (3GPP TS 23.141 version 15.0.0 Release 15)
- ETSI TS 123142 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Value-added Services for SMS (VAS4SMS) – Interface and signalling flow (3GPP TS 23.142 version 15.0.0 Release 15)
- ETSI TS 123146 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Technical realization of facsimile Group 3 non-transparent (3GPP TS 23.146 version 15.0.0 Release 15)
- ETSI TS 123153 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – Out of band transcoder control – Stage 2 (3GPP TS 23.153 version 15.0.0 Release 15)
- ETSI TS 123161 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Network-Based IP Flow Mobility (NBIFOM) – Stage 2 (3GPP TS 23.161 version 15.0.0 Release 15)
- ETSI TS 123167 V 14.6.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– IP Multimedia Subsystem (IMS) emergency sessions (3GPP TS 23.167 version 14.6.0 Release 14)
- ETSI TS 123167 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– IP Multimedia Subsystem (IMS) emergency sessions (3GPP TS 23.167 version 15.3.0 Release 15)
- ETSI TS 123172 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 123202 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS)
– Circuit switched data bearer services (3GPP TS 23.202 version 15.0.0 Release 15)
- ETSI TS 123203 V 14.6.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control architecture (3GPP TS 23.203 version 14.6.0 Release 14)

- ETSI TS 123203 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Policy and charging control architecture (3GPP TS 23.203 version 15.4.0 Release 15)
- ETSI TS 123204 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access – Stage 2 (3GPP TS 23.204 version 15.0.0 Release 15)
- ETSI TS 123205 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Bearer-independent circuit-switched core network – Stage 2 (3GPP TS 23.205 version 15.0.0 Release 15)
- ETSI TS 123207 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – End-to-end Quality of Service (QoS) concept and architecture (3GPP TS 23.207 version 15.0.0 Release 15)
- ETSI TS 123214 V 14.9.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for control and user plane separation of EPC nodes (3GPP TS 23.214 version 14.9.0 Release 14)
- ETSI TS 123214 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for control and user plane separation of EPC nodes (3GPP TS 23.214 version 15.4.0 Release 15)
- ETSI TS 123216 V 15.2.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Single Radio Voice Call Continuity (SRVCC) – Stage 2 (3GPP TS 23.216 version 15.2.0 Release 15)
- ETSI TS 123218 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) session handling – IM call model – Stage 2 (3GPP TS 23.218 version 15.0.0 Release 15)
- ETSI TS 123221 V 14.2.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Architectural requirements (3GPP TS 23.221 version 14.2.0 Release 14)
- ETSI TS 123221 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Architectural requirements (3GPP TS 23.221 version 15.0.0 Release 15)
- ETSI TS 123226 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Global text telephony (GTT) – Stage 2 (3GPP TS 23.226 version 15.0.0 Release 15)
- ETSI TS 123228 V 15.3.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) – Stage 2 (3GPP TS 23.228 version 15.3.0 Release 15)
- ETSI TS 123231 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – SIP-I based circuit-switched core network – Stage 2 (3GPP TS 23.231 version 15.0.0 Release 15)
- ETSI TS 123236 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes (3GPP TS 23.236 version 15.0.0 Release 15)
- ETSI TS 123237 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) Service Continuity – Stage 2 (3GPP TS 23.237 version 15.1.0 Release 15)
- ETSI TS 123240 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Generic User Profile (GUP) – Architecture (Stage 2) (3GPP TS 23.240 version 15.0.0 Release 15)
- ETSI TS 123246 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Broadcast/Multicast Service (MBMS) – Architecture and functional description (3GPP TS 23.246 version 15.0.0 Release 15)
- ETSI TS 123251 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Network sharing – Architecture and functional description (3GPP TS 23.251 version 15.1.0 Release 15)
- ETSI TS 123259 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 123261 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – IP flow mobility and seamless Wireless Local Area Network (WLAN) offload – Stage 2 (3GPP TS 23.261 version 15.0.0 Release 15)
- ETSI TS 123271 V 14.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Functional stage 2 description of Location Services (LCS) (3GPP TS 23.271 version 14.4.0 Release 14)
- ETSI TS 123271 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Functional stage 2 description of Location Services (LCS) (3GPP TS 23.271 version 15.1.0 Release 15)
- ETSI TS 123272 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Circuit Switched (CS) fallback in Evolved Packet System (EPS) – Stage 2 (3GPP TS 23.272 version 15.0.0 Release 15)
- ETSI TS 123278 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 – Stage 2 – IM CN Interworking (3GPP TS 23.278 version 15.0.0 Release 15)
- ETSI TS 123279 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Combining Circuit Switched (CS) and IP Multimedia Subsystem (IMS) services – Stage 2 (3GPP TS 23.279 version 15.0.0 Release 15)
- ETSI TS 123284 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Local Call Local Switch (LCLS) – Stage 2 (3GPP TS 23.284 version 15.0.0 Release 15)
- ETSI TS 123285 V 14.7.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for V2X services (3GPP TS 23.285 version 14.7.0 Release 14)
- ETSI TS 123285 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for V2X services (3GPP TS 23.285 version 15.1.0 Release 15)
- ETSI TS 123292 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) centralized services – Stage 2 (3GPP TS 23.292 version 15.0.0 Release 15)
- ETSI TS 123303 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Proximity-based services (ProSe) – Stage 2 (3GPP TS 23.303 version 15.1.0 Release 15)

- ETSI TS 123333 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Multimedia Resource Function Controller (MRFC) – Multimedia Resource Function Processor (MRFP) Mp interface: Procedures descriptions (3GPP TS 23.333 version 15.0.0 Release 15)
- ETSI TS 123334 V 14.5.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) Application Level Gateway (IMS-ALG) – IMS Access Gateway (IMS-AGW) interface: Procedures descriptions (3GPP TS 23.334 version 14.5.0 Release 14)
- ETSI TS 123334 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia Subsystem (IMS) Application Level Gateway (IMS-ALG) – IMS Access Gateway (IMS-AGW) interface: Procedures descriptions (3GPP TS 23.334 version 15.0.0 Release 15)
- ETSI TS 123335 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – User Data Convergence (UDC) – Technical realization and information flows – Stage 2 (3GPP TS 23.335 version 15.0.0 Release 15)
- ETSI TS 123380 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IMS Restoration Procedures (3GPP TS 23.380 version 15.0.0 Release 15)
- ETSI TS 123401 V 14.10.0:2018
LTE – General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 14.10.0 Release 14)
- ETSI TS 123401 V 15.5.0:2018
LTE – General Packet Radio Service (GPRS) enhancements for Evolved Universal Terrestrial Radio Access Network (E-UTRAN) access (3GPP TS 23.401 version 15.5.0 Release 15)
- ETSI TS 123402 V 13.9.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 13.9.0 Release 13)
- ETSI TS 123402 V 14.7.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 14.7.0 Release 14)
- ETSI TS 123402 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements for non-3GPP accesses (3GPP TS 23.402 version 15.3.0 Release 15)
- ETSI TS 123468 V 15.0.0:2018
LTE – Group Communication System Enablers for LTE (GCSE LTE) – Stage 2 (3GPP TS 23.468 version 15.0.0 Release 15)
- ETSI TS 123501 V 15.3.0:2018
5G – System Architecture for the 5G System (3GPP TS 23.501 version 15.3.0 Release 15)
- ETSI TS 123502 V 15.3.0:2018
5G – Procedures for the 5G System (3GPP TS 23.502 version 15.3.0 Release 15)
- ETSI TS 123503 V 15.3.0:2018
5G – Policy and Charging Control Framework for the 5G System – Stage 2 (3GPP TS 23.503 version 15.3.0 Release 15)
- ETSI TS 123682 V 13.11.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements to facilitate communications with packet data networks and applications (3GPP TS 23.682 version 13.11.0 Release 13)
- ETSI TS 123682 V 14.8.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements to facilitate communications with packet data networks and applications (3GPP TS 23.682 version 14.8.0 Release 14)
- ETSI TS 123682 V 15.6.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Architecture enhancements to facilitate communications with packet data networks and applications (3GPP TS 23.682 version 15.6.0 Release 15)
- ETSI TR 123903 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Redial solution for voice-video switching (3GPP TR 23.903 version 15.0.0 Release 15)
- ETSI TR 123919 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Direct tunnel deployment guideline (3GPP TR 23.919 version 15.0.0 Release 15)
- ETSI TR 123924 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Feasibility study on Non-Access Stratum (NAS) node selection function above Base Station Controller (BSC) / Radio Network Controller (RNC) (3GPP TR 23.924 version 15.0.0 Release 15)
- ETSI TR 123975 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IPv6 migration guidelines (3GPP TR 23.975 version 15.0.0 Release 15)
- ETSI TR 123976 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Push architecture (3GPP TR 23.976 version 15.0.0 Release 15)
- ETSI TR 123977 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Bandwidth And Resource Savings (BARS) and speech enhancements for Circuit Switched (CS) networks (3GPP TR 23.977 version 15.0.0 Release 15)
- ETSI TR 123979 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP enablers for Open Mobile Alliance (OMA) – Push-to-talk over Cellular (PoC) services – Stage 2 (3GPP TR 23.979 version 15.0.0 Release 15)
- ETSI TR 123981 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Interworking aspects and migration scenarios for IPv4-based IP Multimedia Subsystem (IMS) implementations (3GPP TR 23.981 version 15.0.0 Release 15)
- ETSI TS 124002 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – GSM – UMTS Public Land Mobile Network (PLMN) Access Reference Configuration (3GPP TS 24.002 version 15.0.0 Release 15)
- ETSI TS 124007 V 15.2.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile radio interface signalling layer 3 – General Aspects (3GPP TS 24.007 version 15.2.0 Release 15)
- ETSI TS 124008 V 14.8.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile radio interface Layer 3 specification – Core network protocols – Stage 3 (3GPP TS 24.008 version 14.8.0 Release 14)
- ETSI TS 124008 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile radio interface Layer 3 specification – Core network protocols – Stage 3 (3GPP TS 24.008 version 15.4.0 Release 15)

- ETSI TS 124010 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Mobile radio interface layer 3 – Supplementary services specification – General aspects (3GPP TS 24.010 version 15.0.0 Release 15)
- ETSI TS 124011 V 14.3.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (3GPP TS 24.011 version 14.3.0 Release 14)
- ETSI TS 124011 V 15.2.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (3GPP TS 24.011 version 15.2.0 Release 15)
- ETSI TS 124022 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Radio Link Protocol (RLP) for circuit switched bearer and services (3GPP TS 24.022 version 15.0.0 Release 15)
- ETSI TS 124030 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Location Services (LCS) – Supplementary service operations – Stage 3 (3GPP TS 24.030 version 15.0.0 Release 15)
- ETSI TS 124067 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Enhanced Multi-Level Precedence and Pre-emption service (eMLPP) – Stage 3 (3GPP TS 24.067 version 15.0.0 Release 15)
- ETSI TS 124072 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Deflection (CD) supplementary service – Stage 3 (3GPP TS 24.072 version 15.0.0 Release 15)
- ETSI TS 124080 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile radio interface layer 3 supplementary services specification – Formats and coding (3GPP TS 24.080 version 15.0.0 Release 15)
- ETSI TS 124081 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Line Identification supplementary services – Stage 3 (3GPP TS 24.081 version 15.0.0 Release 15)
- ETSI TS 124082 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Forwarding (CF) supplementary services – Stage 3 (3GPP TS 24.082 version 15.0.0 Release 15)
- ETSI TS 124083 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Waiting (CW) and Call Hold (HOLD) supplementary services – Stage 3 (3GPP TS 24.083 version 15.0.0 Release 15)
- ETSI TS 124084 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Multi Party (MPTY) supplementary service – Stage 3 (3GPP TS 24.084 version 15.0.0 Release 15)
- ETSI TS 124085 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Closed User Group (CUG) supplementary service – Stage 3 (3GPP TS 24.085 version 15.0.0 Release 15)
- ETSI TS 124086 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Advice of Charge (AoC) supplementary services – Stage 3 (3GPP TS 24.086 version 15.0.0 Release 15)
- ETSI TS 124087 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – User-to-User Signalling (UUS) Supplementary Service – Stage 3 (3GPP TS 24.087 version 15.0.0 Release 15)
- ETSI TS 124088 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Call Barring (CB) supplementary service – Stage 3 (3GPP TS 24.088 version 15.0.0 Release 15)
- ETSI TS 124090 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Unstructured Supplementary Service Data (USSD) – Stage 3 (3GPP TS 24.090 version 15.0.0 Release 15)
- ETSI TS 124091 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Explicit Call Transfer (ECT) supplementary service – Stage 3 (3GPP TS 24.091 version 15.0.0 Release 15)
- ETSI TS 124093 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Completion of Calls to Busy Subscriber (CCBS) – Stage 3 (3GPP TS 24.093 version 15.0.0 Release 15)
- ETSI TS 124096 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Name Identification supplementary services – Stage 3 (3GPP TS 24.096 version 15.0.0 Release 15)
- ETSI TS 124109 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Bootstrapping interface (Ub) and network application function interface (Ua) – Protocol details (3GPP TS 24.109 version 15.0.0 Release 15)
- ETSI TS 124116 V 15.0.0:2018
LTE – Stage 3 aspects of system architecture enhancements for TV services (3GPP TS 24.116 version 15.0.0 Release 15)
- ETSI TS 124117 V 15.0.0:2018
LTE – TV service configuration Management Object (MO) (3GPP TS 24.117 version 15.0.0 Release 15)
- ETSI TS 124135 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Multicall supplementary service – Stage 3 (3GPP TS 24.135 version 15.0.0 Release 15)
- ETSI TS 124139 V 11.5.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP system – fixed broadband access network interworking – Stage 3 (3GPP TS 24.139 version 11.5.0 Release 11)
- ETSI TS 124139 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP system – fixed broadband access network interworking – Stage 3 (3GPP TS 24.139 version 15.0.0 Release 15)
- ETSI TS 124141 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Presence service using the IP Multimedia (IM) Core Network (CN) subsystem – Stage 3 (3GPP TS 24.141 version 15.0.0 Release 15)
- ETSI TS 124147 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem – Stage 3 (3GPP TS 24.147 version 15.0.0 Release 15)
- ETSI TS 124166 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP IP Multimedia Subsystem (IMS) conferencing Management Object (MO) (3GPP TS 24.166 version 15.0.0 Release 15)
- ETSI TS 124167 V 14.7.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP IMS Management Object (MO) – Stage 3 (3GPP TS 24.167 version 14.7.0 Release 14)

- ETSI TS 124167 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – 3GPP IMS Management Object (MO) – Stage 3
(3GPP TS 24.167 version 15.3.0 Release 15)
- ETSI TS 124171 V 15.0.0:2018
LTE – Control Plane Location Services (LCS)
procedures in the Evolved Packet System (EPS)
(3GPP TS 24.171 version 15.0.0 Release 15)
- ETSI TS 124173 V 14.3.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – 5G – IMS Multimedia telephony communication
service and supplementary services – Stage 3
(3GPP TS 24.173 version 14.3.0 Release 14)
- ETSI TS 124173 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – 5G – IMS Multimedia telephony communication
service and supplementary services – Stage 3
(3GPP TS 24.173 version 15.2.0 Release 15)
- ETSI TS 124182 V 9.11.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP Multimedia Subsystem (IMS)
Customized Alerting Tones (CAT) – Protocol specification
(3GPP TS 24.182 version 9.11.0 Release 9)
- ETSI TS 124182 V 10.6.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP Multimedia Subsystem (IMS)
Customized Alerting Tones (CAT) – Protocol specification
(3GPP TS 24.182 version 10.6.0 Release 10)
- ETSI TS 124182 V 11.3.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP Multimedia Subsystem (IMS)
Customized Alerting Tones (CAT) – Protocol specification
(3GPP TS 24.182 version 11.3.0 Release 11)
- ETSI TS 124182 V 12.2.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP Multimedia Subsystem (IMS)
Customized Alerting Tones (CAT) – Protocol specification
(3GPP TS 24.182 version 12.2.0 Release 12)
- ETSI TS 124182 V 13.2.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP Multimedia Subsystem (IMS)
Customized Alerting Tones (CAT) – Protocol specification
(3GPP TS 24.182 version 13.2.0 Release 13)
- ETSI TS 124182 V 14.2.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP Multimedia Subsystem (IMS)
Customized Alerting Tones (CAT) – Protocol specification
(3GPP TS 24.182 version 14.2.0 Release 14)
- ETSI TS 124182 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP Multimedia Subsystem (IMS)
Customized Alerting Tones (CAT) – Protocol specification
(3GPP TS 24.182 version 15.0.0 Release 15)
- ETSI TS 124183 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia Subsystem (IMS) Customized
Ringing Signal (CRS) – Protocol specification
(3GPP TS 24.183 version 15.0.0 Release 15)
- ETSI TS 124216 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Communication Continuity Management Object (MO)
(3GPP TS 24.216 version 15.0.0 Release 15)
- ETSI TS 124229 V 8.37.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP multimedia call control protocol based on Session
Initiation Protocol (SIP) and Session Description Protocol
(SDP) – Stage 3 (3GPP TS 24.229 version 8.37.0 Release 8)
- ETSI TS 124229 V 9.31.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – IP multimedia call control protocol based on Session
Initiation Protocol (SIP) and Session Description Protocol
(SDP) – Stage 3 (3GPP TS 24.229 version 9.31.0 Release 9)
- ETSI TS 124229 V 10.29.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – IP multimedia call control protocol based on Session
Initiation Protocol (SIP) and Session Description Protocol
(SDP) – Stage 3 (3GPP TS 24.229 version 10.29.0 Release 10)
- ETSI TS 124229 V 11.28.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – IP multimedia call control protocol based on Session
Initiation Protocol (SIP) and Session Description Protocol
(SDP) – Stage 3 (3GPP TS 24.229 version 11.28.0 Release 11)
- ETSI TS 124229 V 12.22.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – IP multimedia call control protocol based on Session
Initiation Protocol (SIP) and Session Description Protocol
(SDP) – Stage 3 (3GPP TS 24.229 version 12.22.0 Release 12)
- ETSI TS 124229 V 13.15.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – IP multimedia call control protocol based on Session
Initiation Protocol (SIP) and Session Description Protocol
(SDP) – Stage 3 (3GPP TS 24.229 version 13.15.0 Release 13)
- ETSI TS 124229 V 14.10.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – IP multimedia call control protocol based on Session
Initiation Protocol (SIP) and Session Description Protocol
(SDP) – Stage 3 (3GPP TS 24.229 version 14.10.0 Release 14)
- ETSI TS 124229 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – 5G – IP multimedia call control
protocol based on Session Initiation Protocol (SIP)
and Session Description Protocol (SDP) – Stage 3
(3GPP TS 24.229 version 15.4.0 Release 15)
- ETSI TS 124237 V 14.6.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia (IM) Core Network (CN) subsystem
IP Multimedia Subsystem (IMS) service continuity – Stage 3
(3GPP TS 24.237 version 14.6.0 Release 14)
- ETSI TS 124237 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia (IM) Core Network (CN) subsystem
IP Multimedia Subsystem (IMS) service continuity – Stage 3
(3GPP TS 24.237 version 15.3.0 Release 15)
- ETSI TS 124238 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Session Initiation Protocol (SIP) based user configuration
– Stage 3 (3GPP TS 24.238 version 15.0.0 Release 15)
- ETSI TS 124239 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Flexible Alerting (FA) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.239 version 15.0.0 Release 15)
- ETSI TS 124244 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Wireless LAN control plane protocol for trusted WLAN access
to EPC – Stage 3 (3GPP TS 24.244 version 15.2.0 Release 15)
- ETSI TS 124247 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Messaging service using the IP
Multimedia (IM) Core Network (CN) subsystem – Stage 3
(3GPP TS 24.247 version 15.0.0 Release 15)

- ETSI TS 124259 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Personal Network Management (PNM) – Stage 3
(3GPP TS 24.259 version 15.0.0 Release 15)
- ETSI TS 124275 V 15.0.0:2018
LTE – Management Object (MO) for Basic Communication Part
(BCP) of IMS Multimedia Telephony (MMTEL) communication
service (3GPP TS 24.275 version 15.0.0 Release 15)
- ETSI TS 124279 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Combining Circuit Switched (CS) and IP
Multimedia Subsystem (IMS) services – Stage 3
(3GPP TS 24.279 version 15.0.0 Release 15)
- ETSI TS 124285 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Allowed Closed Subscriber Group (CSG) list – Management
Object (MO) (3GPP TS 24.285 version 15.0.0 Release 15)
- ETSI TS 124286 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia (IM) Core Network (CN) subsystem
Centralized Services (ICS) – Management Object (MO)
(3GPP TS 24.286 version 15.0.0 Release 15)
- ETSI TS 124292 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia (IM) Core Network (CN)
subsystem Centralized Services (ICS) – Stage 3
(3GPP TS 24.292 version 15.1.0 Release 15)
- ETSI TS 124294 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – IP Multimedia Subsystem (IMS)
Centralized Services (ICS) protocol via I1 interface
(3GPP TS 24.294 version 15.0.0 Release 15)
- ETSI TS 124301 V 13.12.0:2018
Universal Mobile Telecommunications System
(UMTS) – LTE – 5G – Non-Access-Stratum (NAS)
protocol for Evolved Packet System (EPS) – Stage 3
(3GPP TS 24.301 version 13.12.0 Release 13)
- ETSI TS 124301 V 14.10.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – 5G – Non-Access-Stratum (NAS) protocol
for Evolved Packet System (EPS) – Stage 3
(3GPP TS 24.301 version 14.10.0 Release 14)
- ETSI TS 124301 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – 5G – Non-Access-Stratum (NAS) protocol
for Evolved Packet System (EPS) – Stage 3
(3GPP TS 24.301 version 15.4.0 Release 15)
- ETSI TS 124302 V 11.8.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Access to the 3GPP Evolved Packet Core
(EPC) via non-3GPP access networks – Stage 3
(3GPP TS 24.302 version 11.8.0 Release 11)
- ETSI TS 124302 V 12.12.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Access to the 3GPP Evolved Packet Core
(EPC) via non-3GPP access networks – Stage 3
(3GPP TS 24.302 version 12.12.0 Release 12)
- ETSI TS 124302 V 13.10.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Access to the 3GPP Evolved Packet Core
(EPC) via non-3GPP access networks – Stage 3
(3GPP TS 24.302 version 13.10.0 Release 13)
- ETSI TS 124302 V 14.9.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Access to the 3GPP Evolved Packet Core
(EPC) via non-3GPP access networks – Stage 3
(3GPP TS 24.302 version 14.9.0 Release 14)
- ETSI TS 124302 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Access to the 3GPP Evolved Packet Core
(EPC) via non-3GPP access networks – Stage 3
(3GPP TS 24.302 version 15.4.0 Release 15)
- ETSI TS 124303 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Mobility management based on Dual-Stack Mobile
IPv6 – Stage 3 (3GPP TS 24.303 version 15.0.0 Release 15)
- ETSI TS 124304 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Mobility management based on Mobile IPv4
– User Equipment (UE) - foreign agent interface – Stage 3
(3GPP TS 24.304 version 15.0.0 Release 15)
- ETSI TS 124305 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Selective Disabling of 3GPP User
Equipment Capabilities (SDoUE) Management Object (MO)
(3GPP TS 24.305 version 15.1.0 Release 15)
- ETSI TS 124312 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Access Network Discovery and Selection
Function (ANDSF) Management Object (MO)
(3GPP TS 24.312 version 15.0.0 Release 15)
- ETSI TS 124315 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia Subsystem (IMS) Operator
Determined Barring (ODB) – Stage 3: protocol specification
(3GPP TS 24.315 version 15.0.0 Release 15)
- ETSI TS 124322 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Tunnelling of IP Multimedia Subsystem (IMS)
services over restrictive access networks – Stage 3
(3GPP TS 24.322 version 15.0.0 Release 15)
- ETSI TS 124323 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – 3GPP IP Multimedia Subsystem (IMS)
service level tracing Management Object (MO)
(3GPP TS 24.323 version 15.0.0 Release 15)
- ETSI TS 124333 V 13.6.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Proximity-services (ProSe) Management Objects (MO)
(3GPP TS 24.333 version 13.6.0 Release 13)
- ETSI TS 124333 V 14.2.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Proximity-services (ProSe) Management Objects (MO)
(3GPP TS 24.333 version 14.2.0 Release 14)
- ETSI TS 124333 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Proximity-services (ProSe) Management Objects (MO)
(3GPP TS 24.333 version 15.2.0 Release 15)
- ETSI TS 124334 V 13.7.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Proximity-services (ProSe) User Equipment
(UE) to ProSe function protocol aspects – Stage 3
(3GPP TS 24.334 version 13.7.0 Release 13)
- ETSI TS 124334 V 14.1.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Proximity-services (ProSe) User Equipment
(UE) to ProSe function protocol aspects – Stage 3
(3GPP TS 24.334 version 14.1.0 Release 14)
- ETSI TS 124334 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Proximity-services (ProSe) User Equipment
(UE) to ProSe function protocol aspects – Stage 3
(3GPP TS 24.334 version 15.2.0 Release 15)
- ETSI TS 124337 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia (IM) Core Network (CN) subsystem
IP Multimedia Subsystem (IMS) inter-UE transfer – Stage 3
(3GPP TS 24.337 version 15.0.0 Release 15)
- ETSI TS 124341 V 15.3.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Support of SMS over IP networks – Stage 3
(3GPP TS 24.341 version 15.3.0 Release 15)

- ETSI TS 124368 V 14.3.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Non-Access Stratum (NAS) configuration Management
Object (MO) (3GPP TS 24.368 version 14.3.0 Release 14)
- ETSI TS 124368 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Non-Access Stratum (NAS) configuration Management
Object (MO) (3GPP TS 24.368 version 15.1.0 Release 15)
- ETSI TS 124385 V 14.4.0:2018
LTE – V2X services Management Object (MO)
(3GPP TS 24.385 version 14.4.0 Release 14)
- ETSI TS 124385 V 15.1.0:2018
LTE – V2X services Management Object (MO)
(3GPP TS 24.385 version 15.1.0 Release 15)
- ETSI TS 124386 V 14.4.0:2019
LTE – User Equipment (UE) to V2X control function – protocol
aspects – Stage 3 (3GPP TS 24.386 version 14.4.0 Release 14)
- ETSI TS 124386 V 15.1.0:2018
LTE – User Equipment (UE) to V2X control function – protocol
aspects – Stage 3 (3GPP TS 24.386 version 15.1.0 Release 15)
- ETSI TS 124390 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– 5G – Unstructured Supplementary Service Data (USSD)
using IP Multimedia (IM) Core Network (CN) subsystem IMS
– Stage 3 (3GPP TS 24.390 version 15.0.0 Release 15)
- ETSI TS 124391 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Unstructured Supplementary Service Data
(USSD) using IP Multimedia (IM) Core Network
(CN) subsystem (IMS) Management Object (MO)
(3GPP TS 24.391 version 15.0.0 Release 15)
- ETSI TS 124417 V 15.0.0:2018
LTE – Management Object (MO) for Originating Identification
Presentation (OIP) and Originating Identification Restriction
(OIR) using IP Multimedia (IM) Core Network (CN) subsystem
(3GPP TS 24.417 version 15.0.0 Release 15)
- ETSI TS 124424 V 15.1.0:2018
LTE – Management Object (MO) for Extensible Markup
Language (XML) Configuration Access Protocol (XCAP) over
the Ut interface for Manipulating Supplementary Services
(SS) (3GPP TS 24.424 version 15.1.0 Release 15)
- ETSI TS 124523 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Core and enterprise Next Generation Network (NGN)
interaction scenarios – Architecture and functional description
(3GPP TS 24.523 version 15.0.0 Release 15)
- ETSI TS 124524 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Hosted enterprise services – Architecture, functional
description and signalling (3GPP TS 24.524 version 15.0.0
Release 15)
- ETSI TS 124525 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Business trunking – Architecture and functional description
(3GPP TS 24.525 version 15.0.0 Release 15)
- ETSI TS 124604 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Communication Diversion (CDIV) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.604 version 15.1.0 Release 15)
- ETSI TS 124605 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Conference (CONF) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.605 version 15.0.0 Release 15)
- ETSI TS 124606 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Message Waiting Indication (MWI) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.606 version 15.0.0 Release 15)
- ETSI TS 124607 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Originating Identification Presentation (OIP) and
Originating Identification Restriction (OIR) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.607 version 15.0.0 Release 15)
- ETSI TS 124608 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Terminating Identification Presentation (TIP) and
Terminating Identification Restriction (TIR) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.608 version 15.0.0 Release 15)
- ETSI TS 124610 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Communication HOLD (HOLD) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.610 version 15.1.0 Release 15)
- ETSI TS 124611 V 14.1.0:2019
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Anonymous Communication Rejection
(ACR) and Communication Barring (CB) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.611 version 14.1.0 Release 14)
- ETSI TS 124611 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Anonymous Communication Rejection
(ACR) and Communication Barring (CB) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol specification
(3GPP TS 24.611 version 15.0.0 Release 15)
- ETSI TS 124615 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Communication Waiting (CW) using IP Multimedia
(IM) Core Network (CN) subsystem – Protocol Specification
(3GPP TS 24.615 version 15.0.0 Release 15)
- ETSI TS 124616 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Malicious Communication Identification (MCID) using
IP Multimedia (IM) Core Network (CN) subsystem – Protocol
specification (3GPP TS 24.616 version 15.0.0 Release 15)
- ETSI TS 124623 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Extensible Markup Language (XML)
Configuration Access Protocol (XCAP) over the Ut
interface for Manipulating Supplementary Services
(3GPP TS 24.623 version 15.0.0 Release 15)
- ETSI TS 124628 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Common Basic Communication procedures using
IP Multimedia (IM) Core Network (CN) subsystem – Protocol
specification (3GPP TS 24.628 version 15.0.0 Release 15)
- ETSI TS 124629 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Explicit Communication Transfer (ECT) using IP
Multimedia (IM) Core Network (CN) subsystem – Protocol
specification (3GPP TS 24.629 version 15.0.0 Release 15)
- ETSI TS 124642 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Completion of Communications to Busy
Subscriber (CCBS) and Completion of Communications
by No Reply (CCNR) using IP Multimedia (IM) Core
Network (CN) subsystem – Protocol specification
(3GPP TS 24.642 version 15.0.0 Release 15)
- ETSI TS 124647 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Advice Of Charge (AOC)
using IP Multimedia (IM) Core Network (CN) subsystem
(3GPP TS 24.647 version 15.0.0 Release 15)

- ETSI TS 124654 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Closed User Group (CUG) using IP Multimedia
(IM) Core Network (CN) subsystem, Protocol Specification
(3GPP TS 24.654 version 15.0.0 Release 15)
- ETSI TR 124930 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)–LTE
– Signalling flows for the session setup in the IP Multimedia
core network Subsystem (IMS) based on Session Initiation
Protocol (SIP) and Session Description Protocol (SDP)
– Stage 3 (3GPP TR 24.930 version 15.0.0 Release 15)
- ETSI TS 125101 V 11.14.0:2018
Universal Mobile Telecommunications System (UMTS)
– User Equipment (UE) radio transmission and reception
(FDD) (3GPP TS 25.101 version 11.14.0 Release 11)
- ETSI TS 125101 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– User Equipment (UE) radio transmission and reception
(FDD) (3GPP TS 25.101 version 15.2.0 Release 15)
- ETSI TS 125102 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– User Equipment (UE) radio transmission and reception
(TDD) (3GPP TS 25.102 version 15.0.0 Release 15)
- ETSI TS 125104 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– Base Station (BS) radio transmission and reception (FDD)
(3GPP TS 25.104 version 15.4.0 Release 15)
- ETSI TS 125105 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Base Station (BS) radio transmission and reception (TDD)
(3GPP TS 25.105 version 15.0.0 Release 15)
- ETSI TS 125106 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– UTRA repeater radio transmission and reception
(3GPP TS 25.106 version 15.0.0 Release 15)
- ETSI TS 125111 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Location Measurement Unit (LMU) performance
specification – User Equipment (UE) positioning in UTRAN
(3GPP TS 25.111 version 15.0.0 Release 15)
- ETSI TS 125113 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Base station (BS) and repeater electromagnetic compatibility
(EMC) (3GPP TS 25.113 version 15.0.0 Release 15)
- ETSI TS 125116 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– UTRA repeater radio transmission and reception (LCR TDD)
(3GPP TS 25.116 version 15.0.0 Release 15)
- ETSI TS 125123 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– Requirements for support of radio resource management
(TDD) (3GPP TS 25.123 version 15.2.0 Release 15)
- ETSI TS 125133 V 13.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– Requirements for support of radio resource management
(FDD) (3GPP TS 25.133 version 13.2.0 Release 13)
- ETSI TS 125133 V 14.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– Requirements for support of radio resource management
(FDD) (3GPP TS 25.133 version 14.2.0 Release 14)
- ETSI TS 125133 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– Requirements for support of radio resource management
(FDD) (3GPP TS 25.133 version 15.2.0 Release 15)
- ETSI TS 125141 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS)
– Base Station (BS) conformance testing (FDD)
(3GPP TS 25.141 version 15.3.0 Release 15)
- ETSI TS 125142 V 15.0.1:2018
Universal Mobile Telecommunications System (UMTS)
– Base Station (BS) conformance testing (TDD)
(3GPP TS 25.142 version 15.0.1 Release 15)
- ETSI TS 125143 V 15.0.0:2018
Universal Mobile Telecommunications System
(UMTS) – UTRA repeater conformance testing
(3GPP TS 25.143 version 15.0.0 Release 15)
- ETSI TS 125153 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– UTRA repeater conformance testing (LCR TDD)
(3GPP TS 25.153 version 15.0.0 Release 15)
- ETSI TS 125171 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Requirements for support of Assisted Global Positioning
System (A-GPS) – Frequency Division Duplex (FDD)
(3GPP TS 25.171 version 15.0.0 Release 15)
- ETSI TS 125172 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 125173 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 125201 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)–Physical
layer – general description (3GPP TS 25.201 version 15.0.0
Release 15)
- ETSI TS 125202 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– 7.68 Mcps Time Division Duplex (TDD) option – Overall
description: Stage 2 (3GPP TS 25.202 version 15.0.0 Release 15)
- ETSI TS 125211 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Physical channels and mapping of transport channels onto
physical channels (FDD) (3GPP TS 25.211 version 15.0.0
Release 15)
- ETSI TS 125212 V 15.0.0:2018
Universal Mobile Telecommunications System
(UMTS) – Multiplexing and channel coding (FDD)
(3GPP TS 25.212 version 15.0.0 Release 15)
- ETSI TS 125213 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Spreading and modulation (FDD) (3GPP TS 25.213 version 15.0.0
Release 15)
- ETSI TS 125214 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Physical layer procedures (FDD)
(3GPP TS 25.214 version 15.0.0 Release 15)
- ETSI TS 125215 V 15.0.0:2018
Universal Mobile Telecommunications System
(UMTS) – Physical layer – Measurements (FDD)
(3GPP TS 25.215 version 15.0.0 Release 15)
- ETSI TS 125221 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Physical channels and mapping of transport channels onto
physical channels (TDD) (3GPP TS 25.221 version 15.0.0
Release 15)
- ETSI TS 125222 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Multiplexing and channel coding (TDD)
(3GPP TS 25.222 version 15.0.0 Release 15)
- ETSI TS 125223 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Spreading and modulation (TDD)
(3GPP TS 25.223 version 15.0.0 Release 15)
- ETSI TS 125224 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Physical layer procedures (TDD)
(3GPP TS 25.224 version 15.0.0 Release 15)
- ETSI TS 125225 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Physical layer – Measurements (TDD)
(3GPP TS 25.225 version 15.0.0 Release 15)

- ETSI TS 125300 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – Universal Terrestrial Radio Access Network (UTRAN) – General description – Stage 2 (3GPP TS 25.300 version 15.1.0 Release 15)
- ETSI TS 125301 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Radio interface protocol architecture (3GPP TS 25.301 version 15.0.0 Release 15)
- ETSI TS 125302 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Services provided by the physical layer (3GPP TS 25.302 version 15.0.0 Release 15)
- ETSI TS 125303 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Interlayer procedures in Connected Mode (3GPP TS 25.303 version 15.0.0 Release 15)
- ETSI TS 125304 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode (3GPP TS 25.304 version 15.0.0 Release 15)
- ETSI TS 125305 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Stage 2 functional specification of User Equipment (UE) positioning in UTRAN (3GPP TS 25.305 version 15.0.0 Release 15)
- ETSI TS 125306 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS) – UE Radio Access capabilities (3GPP TS 25.306 version 15.2.0 Release 15)
- ETSI TS 125307 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Requirements on User Equipments (UEs) supporting a release-independent frequency band (3GPP TS 25.307 version 15.0.0 Release 15)
- ETSI TS 125308 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – High Speed Downlink Packet Access (HSDPA) – Overall description – Stage 2 (3GPP TS 25.308 version 15.0.0 Release 15)
- ETSI TS 125319 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Enhanced uplink – Overall description – Stage 2 (3GPP TS 25.319 version 15.0.0 Release 15)
- ETSI TS 125321 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Medium Access Control (MAC) protocol specification (3GPP TS 25.321 version 15.0.0 Release 15)
- ETSI TS 125322 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Radio Link Control (RLC) protocol specification (3GPP TS 25.322 version 15.0.0 Release 15)
- ETSI TS 125323 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 25.323 version 15.0.0 Release 15)
- ETSI TS 125324 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Broadcast/Multicast Control (BMC) (3GPP TS 25.324 version 15.0.0 Release 15)
- ETSI TS 125327 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – High Speed Packet Access (HSPA) – Requirements on User Equipments (UEs) supporting a release-independent frequency band and multi-carrier configuration (3GPP TS 25.327 version 15.0.0 Release 15)
- ETSI TS 125331 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS) – Radio Resource Control (RRC) – Protocol specification (3GPP TS 25.331 version 15.4.0 Release 15)
- ETSI TS 125346 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – Introduction of the Multimedia Broadcast/Multicast Service (MBMS) in the Radio Access Network (RAN) – Stage 2 (3GPP TS 25.346 version 15.0.0 Release 15)
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– UTRAN luh Interface RANAP User Adaption (RUA) signalling (3GPP TS 25.468 version 15.0.0 Release 15)
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– Home Node B (HNB) Radio Frequency (RF) requirements (FDD) (3GPP TR 25.967 version 15.0.0 Release 15)

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(UMTS) – Multimedia Broadcast/Multicast Service (MBMS)
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Bearers (RBs) supported by Universal Terrestrial Radio Access
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– Spatial channel model for Multiple Input Multiple Output (MIMO)
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– Universal Mobile Telecommunications System (UMTS)
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functions – AMR speech Codec – General description
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- ETSI TS 126073 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126074 V 15.0.0:2018
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
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- ETSI TS 126077 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126090 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126091 V 15.0.0:2018
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
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- ETSI TS 126092 V 15.0.0:2018
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
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- ETSI TS 126093 V 15.0.0:2018
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 – Source controlled
rate operation (3GPP TS 26.093 version 15.0.0 Release 15)
- ETSI TS 126094 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126101 V 15.0.0:2018
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
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- ETSI TS 126102 V 15.0.0:2018
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
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- ETSI TS 126103 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System
(UMTS) – Speech codec list for GSM and UMTS
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- ETSI TS 126104 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – ANSI-C code for the floating-point Adaptive Multi-
Rate (AMR) speech codec (3GPP TS 26.104 version 15.0.0
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- ETSI TS 126110 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Codec for circuit switched multimedia telephony service – General
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- ETSI TS 126111 V 15.0.0:2018
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 15.0.0 Release 15)
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Multimedia Subsystem (IMS) – Multimedia telephony – Media
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- ETSI TS 126114 V 14.8.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– IP Multimedia Subsystem (IMS) – Multimedia telephony
– Media handling and interaction (3GPP TS 26.114 version 14.8.0
Release 14)
- ETSI TS 126114 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– IP Multimedia Subsystem (IMS) – Multimedia telephony
– Media handling and interaction (3GPP TS 26.114 version 15.4.0
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- ETSI TS 126115 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Echo control for speech and multimedia services
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- ETSI TS 126116 V 13.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Television (TV) over 3GPP services – Video profiles
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- ETSI TS 126116 V 14.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Television (TV) over 3GPP services – Video profiles
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– LTE – Television (TV) over 3GPP services – Video profiles
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5G – 3GPP Virtual reality profiles for streaming applications
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Universal Mobile Telecommunications System (UMTS)
– LTE – Terminal acoustic characteristics for telephony
– Requirements (3GPP TS 26.131 version 15.1.0 Release 15)

- ETSI TS 126132 V 14.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 14.2.0 Release 14)
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Universal Mobile Telecommunications System (UMTS)
– LTE – Speech and video telephony terminal acoustic test specification (3GPP TS 26.132 version 15.1.0 Release 15)
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– Universal Mobile Telecommunications System (UMTS)
– LTE – Multimedia Messaging Service (MMS) – Media formats and codecs (3GPP TS 26.140 version 15.0.0 Release 15)
- ETSI TS 126141 V 15.0.0:2018
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– Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia System (IMS) Messaging and Presence – Media formats and codecs (3GPP TS 26.141 version 15.0.0 Release 15)
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Universal Mobile Telecommunications System (UMTS)
– LTE – Dynamic and Interactive Multimedia Scenes (DIMS) (3GPP TS 26.142 version 15.0.0 Release 15)
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- ETSI TS 126171 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126173 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126174 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126177 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Digital cellular telecommunications system (Phase 2+) (GSM) – Speech Enabled Services (SES)
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- ETSI TS 126190 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126191 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126192 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126193 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126194 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126201 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126202 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126204 V 15.0.0:2018
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 – ANSI-C code (3GPP TS 26.204 version 15.0.0 Release 15)
- ETSI TS 126223 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Telepresence using the IP Multimedia Subsystem (IMS)
– Media handling and interaction (3GPP TS 26.223 version 15.0.0 Release 15)
- ETSI TS 126226 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Cellular text telephone modem – General description (3GPP TS 26.226 version 15.0.0 Release 15)
- ETSI TS 126230 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126231 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Cellular text telephone modem – Minimum performance requirements (3GPP TS 26.231 version 15.0.0 Release 15)
- ETSI TS 126233 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Transparent end-to-end Packet-switched Streaming service (PSS) – General description (3GPP TS 26.233 version 15.0.0 Release 15)
- ETSI TS 126234 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Transparent end-to-end Packet-switched Streaming Service (PSS) – Protocols and codecs (3GPP TS 26.234 version 15.1.0 Release 15)
- ETSI TS 126237 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126238 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – 5G – Uplink streaming (3GPP TS 26.238 version 15.1.0 Release 15)
- ETSI TS 126243 V 15.0.0:2018
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 15.0.0 Release 15)

- ETSI TS 126244 V 15.0.0:2018
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- ETSI TS 126245 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet switched Streaming Service (PSS) – Timed text format (3GPP TS 26.245 version 15.0.0 Release 15)
- ETSI TS 126246 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – 3GPP SMIL language profile (3GPP TS 26.246 version 15.0.0 Release 15)
- ETSI TS 126247 V 14.6.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH) (3GPP TS 26.247 version 14.6.0 Release 14)
- ETSI TS 126247 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Transparent end-to-end Packet-switched Streaming Service (PSS) – Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH) (3GPP TS 26.247 version 15.4.0 Release 15)
- ETSI TS 126259 V 15.0.0:2018
5G – Subjective test methodologies for the evaluation of immersive audio systems (3GPP TS 26.259 version 15.0.0 Release 15)
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5G – Objective test methodologies for the evaluation of immersive audio systems (3GPP TS 26.260 version 15.0.0 Release 15)
- ETSI TS 126267 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126268 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126269 V 15.0.0:2018
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- ETSI TS 126273 V 15.0.0:2018
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- ETSI TS 126274 V 15.0.0:2018
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- ETSI TS 126281 V 15.0.0:2018
LTE – Mission Critical Video (MCVideo) – Codecs and media handling (3GPP TS 26.281 version 15.0.0 Release 15)
- ETSI TS 126290 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126304 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126307 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Presentation layer for 3GPP services (3GPP TS 26.307 version 15.0.0 Release 15)
- ETSI TS 126346 V 14.8.0:2019
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- ETSI TS 126346 V 15.2.0:2018
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- ETSI TS 126347 V 15.0.0:2018
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- ETSI TS 126401 V 15.0.0:2018
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- ETSI TS 126402 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 126403 V 15.0.0:2018
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- ETSI TS 126410 V 15.0.0:2018
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- ETSI TS 126411 V 15.0.0:2018
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- ETSI TS 126412 V 15.0.1:2018
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- ETSI TS 126430 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Timed graphics (3GPP TS 26.430 version 15.0.0 Release 15)

- ETSI TS 126441 V 15.0.0:2018
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– Codec for Enhanced Voice Services (EVS) – General
overview (3GPP TS 26.441 version 15.0.0 Release 15)
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– Codec for Enhanced Voice Services (EVS) – ANSI C code
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- ETSI TS 126443 V 13.7.0:2019
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algorithmic description (3GPP TS 26.445 version 15.0.0
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Multi-Rate – Wideband (AMR-WB) backward compatible
functions (3GPP TS 26.446 version 15.0.0 Release 15)
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Management (3GPP TS 26.448 version 15.0.0 Release 15)
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Multimedia Subsystem (IMS) – Optimization opportunities
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– LTE – Virtual Reality (VR) media services over 3GPP
(3GPP TR 26.918 version 15.2.0 Release 15)

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– Performance evaluation (3GPP TR 26.922 version 15.0.0 Release 15)
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(UMTS) – LTE – Study on media handling aspects of
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– Study on improved end-to-end Quality of Service (QoS)
handling for Multimedia Telephony Service for IMS (MTSI)
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– LTE – Evaluation of Additional Acoustic Tests for Speech
Telephony (3GPP TR 26.931 version 15.0.0 Release 15)
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– Universal Mobile Telecommunications System (UMTS)
– LTE – Packet Switched (PS) conversational multimedia
applications – Performance characterisation of default codecs
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– LTE – Performance characterization of 3GPP audio codecs
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- ETSI TR 126937 V 15.0.0:2018
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(PSS) – Real-time Transport Protocol (RTP) usage model
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support for dynamic adaptive streaming over HTTP in 3GPP
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– 5G – Guidelines on the Framework for Live Uplink Streaming
(FLUS) (3GPP TR 26.939 version 15.1.0 Release 15)
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of codecs for Speech Enabled Services (SES)
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– End-to-end multimedia services performance metrics
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– Universal Mobile Telecommunications System (UMTS)
– LTE – Multimedia Broadcast/Multicast Service (MBMS) user
service guidelines (3GPP TR 26.946 version 15.0.1 Release 15)
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– Selection and characterisation of application layer Forward
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– LTE – Study on video enhancements in 3GPP multimedia
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– Video formats for 3GPP services (3GPP TR 26.949 version 15.0.0
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characterization (3GPP TR 26.952 version 15.0.0 Release 15)
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – eCall data transfer – In-band modem solution
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – eCall data transfer – In-band modem solution
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– LTE – Performance characterization of the Adaptive Multi-
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(UMTS) – LTE – Performance characterization of the
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- ETSI TR 126978 V 15.0.0:2018
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– LTE – Results of the Adaptive Multi-Rate (AMR) noise
suppression selection phase (3GPP TR 26.978 version 15.0.0
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- ETSI TR 126980 V 15.0.0:2018
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– LTE – Multimedia telephony over IP Multimedia Subsystem
(IMS) – Media handling aspects of multi-stream multiparty
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– General on Terminal Adaptation Functions (TAF) for Mobile
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LTE – Telecommunication management – Configuration Management (CM) for mobile networks that include virtualized network functions – Stage 3 (3GPP TS 28.513 version 15.0.0 Release 15)
- ETSI TS 128515 V 15.0.0:2018
LTE – Telecommunication management – Fault Management (FM) for mobile networks that include virtualized network functions – Requirements (3GPP TS 28.515 version 15.0.0 Release 15)
- ETSI TS 128516 V 15.0.0:2018
LTE – Telecommunication management – Fault Management (FM) for mobile networks that include virtualized network functions – Procedures (3GPP TS 28.516 version 15.0.0 Release 15)

- ETSI TS 128517 V 15.0.0:2018
LTE – Telecommunication management – Fault Management (FM) for mobile networks that include virtualized network functions – Stage 2 (3GPP TS 28.517 version 15.0.0 Release 15)
- ETSI TS 128518 V 15.0.0:2018
LTE – Telecommunication management – Fault Management (FM) for mobile networks that include virtualized network functions – Stage 3 (3GPP TS 28.518 version 15.0.0 Release 15)
- ETSI TS 128520 V 15.0.0:2018
LTE – Telecommunication management – Performance Management (PM) for mobile networks that include virtualized network functions – Requirements (3GPP TS 28.520 version 15.0.0 Release 15)
- ETSI TS 128521 V 15.0.0:2018
LTE – Telecommunication management – Performance Management (PM) for mobile networks that include virtualized network functions – Procedures (3GPP TS 28.521 version 15.0.0 Release 15)
- ETSI TS 128522 V 15.0.0:2018
LTE – Telecommunication management – Performance Management (PM) for mobile networks that include virtualized network functions – Stage 2 (3GPP TS 28.522 version 15.0.0 Release 15)
- ETSI TS 128523 V 15.0.0:2018
LTE – Telecommunication management – Performance Management (PM) for mobile networks that include virtualized network functions – Stage 3 (3GPP TS 28.523 version 15.0.0 Release 15)
- ETSI TS 128525 V 14.2.0:2018
LTE – Telecommunication management – Life Cycle Management (LCM) for mobile networks that include virtualized network functions – Requirements (3GPP TS 28.525 version 14.2.0 Release 14)
- ETSI TS 128525 V 15.0.0:2018
LTE – Telecommunication management – Life Cycle Management (LCM) for mobile networks that include virtualized network functions – Requirements (3GPP TS 28.525 version 15.0.0 Release 15)
- ETSI TS 128526 V 14.1.0:2018
LTE – Telecommunication management – Life Cycle Management (LCM) for mobile networks that include virtualized network functions – Procedures (3GPP TS 28.526 version 14.1.0 Release 14)
- ETSI TS 128526 V 15.0.0:2018
LTE – Telecommunication management – Life Cycle Management (LCM) for mobile networks that include virtualized network functions – Procedures (3GPP TS 28.526 version 15.0.0 Release 15)
- ETSI TS 128527 V 15.0.0:2018
LTE – Telecommunication management – Life Cycle Management (LCM) for mobile networks that include virtualized network functions – Stage 2 (3GPP TS 28.527 version 15.0.0 Release 15)
- ETSI TS 128528 V 15.0.0:2018
LTE – Telecommunication management – Life Cycle Management (LCM) for mobile networks that include virtualized network functions – Stage 3 (3GPP TS 28.528 version 15.0.0 Release 15)
- ETSI TS 128530 V 15.0.0:2018
5G – Management and orchestration – Concepts, use cases and requirements (3GPP TS 28.530 version 15.0.0 Release 15)
- ETSI TS 128531 V 15.0.0:2018
5G – Management and orchestration – Provisioning (3GPP TS 28.531 version 15.0.0 Release 15)
- ETSI TS 128532 V 15.0.1:2018
5G – Management and orchestration – Generic management services (3GPP TS 28.532 version 15.0.1 Release 15)
- ETSI TS 128533 V 15.0.0:2018
5G – Management and orchestration – Architecture framework (3GPP TS 28.533 version 15.0.0 Release 15)
- ETSI TS 128540 V 15.0.0:2018
5G – Management and orchestration – 5G Network Resource Model (NRM) – Stage 1 (3GPP TS 28.540 version 15.0.0 Release 15)
- ETSI TS 128541 V 15.0.1:2018
5G – Management and orchestration – 5G Network Resource Model (NRM) – Stage 2 and stage 3 (3GPP TS 28.541 version 15.0.1 Release 15)
- ETSI TS 128545 V 15.0.0:2018
5G – Management and orchestration – Fault Supervision (FS) (3GPP TS 28.545 version 15.0.0 Release 15)
- ETSI TS 128552 V 15.0.0:2018
5G – Management and orchestration – 5G performance measurements (3GPP TS 28.552 version 15.0.0 Release 15)
- ETSI TS 128554 V 15.0.1:2018
5G – Management and orchestration – 5G end to end Key Performance Indicators (KPI) (3GPP TS 28.554 version 15.0.1 Release 15)
- ETSI TS 128611 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128612 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128616 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128620 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128621 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Network Resource Model (NRM) Integration Reference Point (IRP) – Requirements (3GPP TS 28.621 version 15.0.0 Release 15)
- ETSI TS 128622 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Network Resource Model (NRM) Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.622 version 15.1.0 Release 15)
- ETSI TS 128623 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Generic Network Resource Model (NRM) Integration Reference Point (IRP) – Solution Set (SS) definitions (3GPP TS 28.623 version 15.0.0 Release 15)
- ETSI TS 128624 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – State management data definition Integration Reference Point (IRP) – Requirements (3GPP TS 28.624 version 15.0.0 Release 15)
- ETSI TS 128625 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – State management data definition Integration Reference Point (IRP) – Information Service (IS) (3GPP TS 28.625 version 15.0.0 Release 15)
- ETSI TS 128626 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128627 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Self-Organizing Networks (SON) Policy Network Resource Model (NRM) Integration Reference Point (IRP) – Requirements (3GPP TS 28.627 version 15.0.0 Release 15)

- ETSI TS 128680 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Wireless Local Area Network (WLAN) management – Concepts and requirements (3GPP TS 28.680 version 15.0.0 Release 15)
- ETSI TS 128681 V 15.0.0:2018
LTE – Telecommunication management – Wireless Local Area Network (WLAN) Network Resource Model (NRM) Integration Reference Point (IRP) – Requirements (3GPP TS 28.681 version 15.0.0 Release 15)
- ETSI TS 128682 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128683 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128701 V 15.1.0:2018
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 15.1.0 Release 15)
- ETSI TS 128702 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128703 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128704 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128705 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128706 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128707 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128708 V 15.1.0:2018
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 15.1.0 Release 15)
- ETSI TS 128709 V 15.1.0:2018
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 15.1.0 Release 15)
- ETSI TS 128731 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128732 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128733 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128734 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128735 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128736 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128751 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128752 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 128753 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129002 V 15.3.1:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Mobile Application Part (MAP) specification (3GPP TS 29.002 version 15.3.1 Release 15)
- ETSI TS 129007 V 8.2.0:2019
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 8.2.0 Release 8)
- ETSI TS 129007 V 9.2.0:2019
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 9.2.0 Release 9)

- ETSI TS 129007 V 10.1.0:2019
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 10.1.0 Release 10)
- ETSI TS 129007 V 11.1.0:2019
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 11.1.0 Release 11)
- ETSI TS 129007 V 12.1.0:2019
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 12.1.0 Release 12)
- ETSI TS 129007 V 13.1.0:2019
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 13.1.0 Release 13)
- ETSI TS 129007 V 14.1.0:2019
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 14.1.0 Release 14)
- ETSI TS 129007 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129010 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Information element mapping between Mobile Station – Base Station System (MS – BSS) and Base Station System – Mobile-services Switching Centre (BSS – MSC)
– Signalling Procedures and the Mobile Application Part (MAP) (3GPP TS 29.010 version 15.0.0 Release 15)
- ETSI TS 129011 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Signalling Interworking for supplementary services (3GPP TS 29.011 version 15.0.0 Release 15)
- ETSI TS 129013 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS)
– Signalling interworking between ISDN supplementary services – Application Service Element (ASE) and Mobile Application Part (MAP) protocols (3GPP TS 29.013 version 15.0.0 Release 15)
- ETSI TS 129016 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129018 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129060 V 15.2.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS)
– General Packet Radio Service (GPRS) – GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface (3GPP TS 29.060 version 15.2.0 Release 15)
- ETSI TS 129061 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061 version 15.4.0 Release 15)
- ETSI TS 129078 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase X – CAMEL Application Part (CAP) specification (3GPP TS 29.078 version 15.0.0 Release 15)
- ETSI TS 129079 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129108 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Application of the Radio Access Network Application Part (RANAP) on the E-interface (3GPP TS 29.108 version 15.0.0 Release 15)
- ETSI TS 129109 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Generic Authentication Architecture (GAA) – Zh and Zn Interfaces based on the Diameter protocol – Stage 3 (3GPP TS 29.109 version 15.0.0 Release 15)
- ETSI TS 129118 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Mobility Management Entity (MME) – Visitor Location Register (VLR) SGs interface specification (3GPP TS 29.118 version 15.2.0 Release 15)
- ETSI TS 129119 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR) (3GPP TS 29.119 version 15.0.0 Release 15)
- ETSI TS 129120 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Mobile Application Part (MAP) specification for Gateway Location Register (GLR) (3GPP TS 29.120 version 15.0.0 Release 15)
- ETSI TS 129139 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – 3GPP system – fixed broadband access network interworking – Home (e)Node B – security gateway interface (3GPP TS 29.139 version 15.0.0 Release 15)
- ETSI TS 129153 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Service capability exposure functionality over Ns reference point (3GPP TS 29.153 version 15.0.0 Release 15)
- ETSI TS 129154 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Service capability exposure functionality over Nt reference point (3GPP TS 29.154 version 15.2.0 Release 15)
- ETSI TS 129162 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IM CN subsystem and IP networks (3GPP TS 29.162 version 15.0.0 Release 15)
- ETSI TS 129163 V 8.32.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 8.32.0 Release 8)

- ETSI TS 129163 V 9.26.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 9.26.0 Release 9)
- ETSI TS 129163 V 10.22.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 10.22.0 Release 10)
- ETSI TS 129163 V 11.19.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 11.19.0 Release 11)
- ETSI TS 129163 V 12.15.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 12.15.0 Release 12)
- ETSI TS 129163 V 13.12.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 13.12.0 Release 13)
- ETSI TS 129163 V 14.10.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 14.10.0 Release 14)
- ETSI TS 129163 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 15.4.0 Release 15)
- ETSI TS 129164 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129165 V 11.24.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 11.24.0 Release 11)
- ETSI TS 129165 V 12.19.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 12.19.0 Release 12)
- ETSI TS 129165 V 13.12.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 13.12.0 Release 13)
- ETSI TS 129165 V 14.9.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 14.9.0 Release 14)
- ETSI TS 129165 V 15.5.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 15.5.0 Release 15)
- ETSI TS 129168 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Cell Broadcast Centre interfaces with the Evolved Packet Core – Stage 3 (3GPP TS 29.168 version 15.1.0 Release 15)
- ETSI TS 129171 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Location Services (LCS) – LCS Application Protocol (LCS-AP) between the Mobile Management Entity (MME) and Evolved Serving Mobile Location Centre (E-SMLC) – SLs interface (3GPP TS 29.171 version 15.1.0 Release 15)
- ETSI TS 129172 V 14.2.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Location Services (LCS) – Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME)
– SLg interface (3GPP TS 29.172 version 14.2.0 Release 14)
- ETSI TS 129172 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Location Services (LCS) – Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME)
– SLg interface (3GPP TS 29.172 version 15.0.0 Release 15)
- ETSI TS 129173 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Location Services (LCS)
– Diameter-based SLh interface for Control Plane LCS (3GPP TS 29.173 version 15.0.0 Release 15)
- ETSI TS 129201 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129202 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Signalling System No. 7 (SS7) signalling transport in core network – Stage 3 (3GPP TS 29.202 version 15.0.0 Release 15)
- ETSI TS 129204 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Signalling System No. 7 (SS7) security gateway
– Architecture, functional description and protocol details (3GPP TS 29.204 version 15.0.0 Release 15)
- ETSI TS 129205 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Application of Q.1900 series to bearer independent Circuit Switched (CS) core network architecture – Stage 3 (3GPP TS 29.205 version 15.0.0 Release 15)
- ETSI TS 129212 V 13.12.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 13.12.0 Release 13)
- ETSI TS 129212 V 14.8.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 14.8.0 Release 14)
- ETSI TS 129212 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Policy and Charging Control (PCC) – Reference points (3GPP TS 29.212 version 15.4.0 Release 15)
- ETSI TS 129213 V 8.19.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 8.19.0 Release 8)
- ETSI TS 129213 V 9.16.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 9.16.0 Release 9)
- ETSI TS 129213 V 10.15.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 10.15.0 Release 10)

- ETSI TS 129213 V 11.16.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 11.16.0 Release 11)
- ETSI TS 129213 V 12.14.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 12.14.0 Release 12)
- ETSI TS 129213 V 13.10.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 13.10.0 Release 13)
- ETSI TS 129213 V 14.7.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 14.7.0 Release 14)
- ETSI TS 129213 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping (3GPP TS 29.213 version 15.4.0 Release 15)
- ETSI TS 129214 V 8.19.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 8.19.0 Release 8)
- ETSI TS 129214 V 9.17.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 9.17.0 Release 9)
- ETSI TS 129214 V 10.15.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 10.15.0 Release 10)
- ETSI TS 129214 V 13.13.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 13.13.0 Release 13)
- ETSI TS 129214 V 14.8.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 14.8.0 Release 14)
- ETSI TS 129214 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Policy and charging control over Rx reference point (3GPP TS 29.214 version 15.4.0 Release 15)
- ETSI TS 129215 V 8.16.0:2019
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 8.16.0 Release 8)
- ETSI TS 129215 V 9.14.0:2019
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 9.14.0 Release 9)
- ETSI TS 129215 V 10.10.0:2019
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 10.10.0 Release 10)
- ETSI TS 129215 V 11.17.0:2018
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 11.17.0 Release 11)
- ETSI TS 129215 V 12.9.0:2018
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 12.9.0 Release 12)
- ETSI TS 129215 V 13.9.0:2018
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 13.9.0 Release 13)
- ETSI TS 129215 V 14.3.0:2018
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 14.3.0 Release 14)
- ETSI TS 129215 V 15.1.0:2018
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 15.1.0 Release 15)
- ETSI TS 129217 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Policy and Charging Control (PCC) – Congestion reporting over Np reference point (3GPP TS 29.217 version 15.0.0 Release 15)
- ETSI TS 129219 V 15.1.0:2018
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 15.1.0 Release 15)
- ETSI TS 129228 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – IP Multimedia (IM) Subsystem Cx and Dx Interfaces – Signalling flows and message contents (3GPP TS 29.228 version 15.1.0 Release 15)
- ETSI TS 129229 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Cx and Dx interfaces based on the Diameter protocol – Protocol details (3GPP TS 29.229 version 15.0.0 Release 15)
- ETSI TS 129230 V 14.8.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Diameter applications – 3GPP specific codes and identifiers (3GPP TS 29.230 version 14.8.0 Release 14)
- ETSI TS 129230 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Diameter applications – 3GPP specific codes and identifiers (3GPP TS 29.230 version 15.4.0 Release 15)
- ETSI TS 129231 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Application of SIP-I Protocols to Circuit Switched (CS) core network architecture – Stage 3 (3GPP TS 29.231 version 15.0.0 Release 15)
- ETSI TS 129232 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Media Gateway Controller (MGC) – Media Gateway (MGW) interface – Stage 3 (3GPP TS 29.232 version 15.0.0 Release 15)
- ETSI TS 129235 V 8.9.0:2019
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 8.9.0 Release 8)
- ETSI TS 129235 V 9.11.0:2019
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 9.11.0 Release 9)

- ETSI TS 129235 V 10.4.0:2019
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 10.4.0 Release 10)
- ETSI TS 129235 V 11.4.0:2019
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 11.4.0 Release 11)
- ETSI TS 129235 V 12.2.0:2019
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 12.2.0 Release 12)
- ETSI TS 129235 V 13.2.0:2019
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 13.2.0 Release 13)
- ETSI TS 129235 V 14.1.0:2019
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 14.1.0 Release 14)
- ETSI TS 129235 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129238 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – Interconnection Border Control Functions (IBCF) – Transition Gateway (TrGW) interface, Ix interface – Stage 3 (3GPP TS 29.238 version 15.0.0 Release 15)
- ETSI TS 129240 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Generic User Profile (GUP) – Stage 3 – Network (3GPP TS 29.240 version 15.0.0 Release 15)
- ETSI TS 129272 V 9.14.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 9.14.0 Release 9)
- ETSI TS 129272 V 10.10.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 10.10.0 Release 10)
- ETSI TS 129272 V 11.14.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 11.14.0 Release 11)
- ETSI TS 129272 V 12.11.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 12.11.0 Release 12)
- ETSI TS 129272 V 13.12.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 13.12.0 Release 13)
- ETSI TS 129272 V 14.8.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 14.8.0 Release 14)
- ETSI TS 129272 V 15.5.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol (3GPP TS 29.272 version 15.5.0 Release 15)
- ETSI TS 129273 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – 3GPP EPS AAA interfaces (3GPP TS 29.273 version 15.2.0 Release 15)
- ETSI TS 129274 V 12.15.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C) – Stage 3 (3GPP TS 29.274 version 12.15.0 Release 12)
- ETSI TS 129274 V 13.13.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C) – Stage 3 (3GPP TS 29.274 version 13.13.0 Release 13)
- ETSI TS 129274 V 14.8.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C) – Stage 3 (3GPP TS 29.274 version 14.8.0 Release 14)
- ETSI TS 129274 V 15.5.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C) – Stage 3 (3GPP TS 29.274 version 15.5.0 Release 15)
- ETSI TS 129275 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Proxy Mobile IPv6 (PMIPv6) based Mobility and Tunnelling protocols – Stage 3 (3GPP TS 29.275 version 15.0.0 Release 15)
- ETSI TS 129276 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – 3GPP Evolved Packet System (EPS) – Optimized handover procedures and protocols between E-UTRAN access and cdma2000 HRPD Access – Stage 3 (3GPP TS 29.276 version 15.0.0 Release 15)
- ETSI TS 129277 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Optimised handover procedures and protocol between EUTRAN access and non-3GPP accesses (S102) – Stage 3 (3GPP TS 29.277 version 15.0.0 Release 15)
- ETSI TS 129278 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase 4 – CAMEL Application Part (CAP) specification for IP Multimedia Subsystems (IMS) (3GPP TS 29.278 version 15.0.0 Release 15)
- ETSI TS 129279 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Mobile IPv4 (MIPv4) based mobility protocols – Stage 3 (3GPP TS 29.279 version 15.0.0 Release 15)
- ETSI TS 129280 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – Evolved Packet System (EPS) – 3GPP Sv interface (MME to MSC, and SGSN to MSC) for SRVCC (3GPP TS 29.280 version 15.0.0 Release 15)
- ETSI TS 129281 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE – General Packet Radio System (GPRS) Tunnelling Protocol User Plane (GTPv1-U) (3GPP TS 29.281 version 15.4.0 Release 15)

- ETSI TS 129282 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Mobile IPv6 vendor specific option format and usage within
3GPP (3GPP TS 29.282 version 15.0.0 Release 15)
- ETSI TS 129292 V 12.7.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Interworking between the IP Multimedia (IM) Core Network
(CN) subsystem (IMS) and MSC Server for IMS Centralized
Services (ICS) (3GPP TS 29.292 version 12.7.0 Release 12)
- ETSI TS 129292 V 13.4.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Interworking between the IP Multimedia (IM) Core Network
(CN) subsystem (IMS) and MSC Server for IMS Centralized
Services (ICS) (3GPP TS 29.292 version 13.4.0 Release 13)
- ETSI TS 129292 V 14.5.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Interworking between the IP Multimedia (IM) Core Network
(CN) subsystem (IMS) and MSC Server for IMS Centralized
Services (ICS) (3GPP TS 29.292 version 14.5.0 Release 14)
- ETSI TS 129292 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Interworking between the IP Multimedia (IM) Core Network
(CN) subsystem (IMS) and MSC Server for IMS Centralized
Services (ICS) (3GPP TS 29.292 version 15.2.0 Release 15)
- ETSI TS 129303 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Domain Name System Procedures – Stage 3
(3GPP TS 29.303 version 15.3.0 Release 15)
- ETSI TS 129305 V 11.8.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– InterWorking Function (IWF) between MAP based and
Diameter based interfaces (3GPP TS 29.305 version 11.8.0
Release 11)
- ETSI TS 129305 V 12.3.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– InterWorking Function (IWF) between MAP based and
Diameter based interfaces (3GPP TS 29.305 version 12.3.0
Release 12)
- ETSI TS 129305 V 13.3.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– InterWorking Function (IWF) between MAP based and
Diameter based interfaces (3GPP TS 29.305 version 13.3.0
Release 13)
- ETSI TS 129305 V 14.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– InterWorking Function (IWF) between MAP based and
Diameter based interfaces (3GPP TS 29.305 version 14.1.0
Release 14)
- ETSI TS 129305 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– InterWorking Function (IWF) between MAP based and
Diameter based interfaces (3GPP TS 29.305 version 15.1.0
Release 15)
- ETSI TS 129311 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Service Level Interworking (SLI) for messaging services
(3GPP TS 29.311 version 15.0.0 Release 15)
- ETSI TS 129328 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia (IM) Subsystem Sh interface – Signalling
flows and message contents (3GPP TS 29.328 version 15.4.0
Release 15)
- ETSI TS 129329 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS) – LTE
– Sh interface based on the Diameter protocol – Protocol
details (3GPP TS 29.329 version 15.1.0 Release 15)
- ETSI TS 129332 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS) – Media
Gateway Control Function (MGCF) – IM Media Gateway
– Mn interface (3GPP TS 29.332 version 15.0.0 Release 15)
- ETSI TS 129333 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– Multimedia Resource Function Controller (MRFC)
– Multimedia Resource Function Processor (MRFP) Mp
interface – Stage 3 (3GPP TS 29.333 version 15.0.0 Release 15)
- ETSI TS 129334 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – IMS Application Level Gateway (IMS-ALG)
– IMS Access Gateway (IMS-AGW) – Iq Interface – Stage 3
(3GPP TS 29.334 version 15.0.0 Release 15)
- ETSI TS 129335 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – User Data Convergence (UDC) – User data
repository access protocol over the Ud interface – Stage 3
(3GPP TS 29.335 version 15.0.0 Release 15)
- ETSI TS 129336 V 14.7.0:2019
Universal Mobile Telecommunications System (UMTS)
– LTE – Home Subscriber Server (HSS) diameter interfaces
for interworking with packet data networks and applications
(3GPP TS 29.336 version 14.7.0 Release 14)
- ETSI TS 129336 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Home Subscriber Server (HSS) diameter interfaces
for interworking with packet data networks and applications
(3GPP TS 29.336 version 15.4.0 Release 15)
- ETSI TS 129337 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Diameter-based T4 Interface for
communications with packet data networks and applications
(3GPP TS 29.337 version 15.0.0 Release 15)
- ETSI TS 129338 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Diameter based protocols to support Short Message
Service (SMS) capable Mobile Management Entities (MMEs)
(3GPP TS 29.338 version 15.0.0 Release 15)
- ETSI TS 129343 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Proximity-services (ProSe) function to
ProSe application server aspects (PC2) – Stage 3
(3GPP TS 29.343 version 15.0.0 Release 15)
- ETSI TS 129344 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Proximity-services (ProSe) function to
Home Subscriber Server (HSS) aspects – Stage 3
(3GPP TS 29.344 version 15.0.0 Release 15)
- ETSI TS 129345 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Inter-Proximity-services (ProSe) function signalling aspects
– Stage 3 (3GPP TS 29.345 version 15.0.0 Release 15)
- ETSI TS 129364 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – IP Multimedia Subsystem (IMS) Application
Server (AS) service data descriptions for AS interoperability
(3GPP TS 29.364 version 15.0.0 Release 15)
- ETSI TS 129368 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TS 129388 V 15.0.0:2018
LTE – V2X Control Function to Home Subscriber Server (HSS)
aspects (V4) – Stage 3 (3GPP TS 29.388 version 15.0.0
Release 15)
- ETSI TS 129389 V 15.0.0:2018
LTE – Inter-V2X Control Function Signalling aspects (V6)
– Stage 3 (3GPP TS 29.389 version 15.0.0 Release 15)
- ETSI TS 129414 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Core network Nb data transport and transport signalling
(3GPP TS 29.414 version 15.0.0 Release 15)

- ETSI TS 129415 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– Core network Nb interface user plane protocols
(3GPP TS 29.415 version 15.0.0 Release 15)
- ETSI TS 129468 V 13.5.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Group Communication System Enablers for
LTE (GCSE LTE) – MB2 reference point – Stage 3
(3GPP TS 29.468 version 13.5.0 Release 13)
- ETSI TS 129468 V 14.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Group Communication System Enablers for
LTE (GCSE LTE) – MB2 reference point – Stage 3
(3GPP TS 29.468 version 14.4.0 Release 14)
- ETSI TS 129468 V 15.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Group Communication System Enablers for
LTE (GCSE LTE) – MB2 reference point – Stage 3
(3GPP TS 29.468 version 15.4.0 Release 15)
- ETSI TS 129658 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 129909 V 15.0.0:2018
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 15.0.0 Release 15)
- ETSI TR 129935 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Study on User Data Convergence (UDC) data model
(3GPP TR 29.935 version 15.0.0 Release 15)
- ETSI TR 129994 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS)
– LTE – Recommended infrastructure measures to overcome
specific Mobile Station (MS) and User Equipment (UE) faults
(3GPP TR 29.994 version 15.0.0 Release 15)
- ETSI TS 131101 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– UICC-terminal interface – Physical and logical characteristics
(3GPP TS 31.101 version 15.1.0 Release 15)
- ETSI TS 131102 V 14.5.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Characteristics of the Universal Subscriber Identity Module
(USIM) application (3GPP TS 31.102 version 14.5.0 Release 14)
- ETSI TS 131102 V 15.2.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Characteristics of the Universal Subscriber Identity Module
(USIM) application (3GPP TS 31.102 version 15.2.0 Release 15)
- ETSI TS 131103 V 14.5.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications
System (UMTS) – LTE – Characteristics of the IP
Multimedia Services Identity Module (ISIM) application
(3GPP TS 31.103 version 14.5.0 Release 14)
- ETSI TS 131103 V 15.3.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications
System (UMTS) – LTE – Characteristics of the IP
Multimedia Services Identity Module (ISIM) application
(3GPP TS 31.103 version 15.3.0 Release 15)
- ETSI TS 131104 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Characteristics of the Hosting Party Subscription Identity
Module (HPSIM) application (3GPP TS 31.104 version 15.0.0
Release 15)
- ETSI TS 131111 V 8.15.0:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS) – LTE
– Universal Subscriber Identity Module (USIM) Application
Toolkit (USAT) (3GPP TS 31.111 version 8.15.0 Release 8)
- ETSI TS 131111 V 9.12.2:2018
Digital cellular telecommunications system (Phase 2+)
(GSM) – Universal Mobile Telecommunications System (UMTS) – LTE
– Universal Subscriber Identity Module (USIM) Application
Toolkit (USAT) (3GPP TS 31.111 version 9.12.2 Release 9)
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Universal Subscriber Identity Module (USIM)
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(GSM) – Universal Mobile Telecommunications System (UMTS) – LTE
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Universal Subscriber Identity Module (USIM)
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Universal Subscriber Identity Module (USIM)
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Universal Subscriber Identity Module (USIM)
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Release 14)
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Universal Subscriber Identity Module (USIM)
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Release 15)
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– UICC-terminal interface – Physical, electrical and logical test
specification (3GPP TS 31.120 version 15.0.0 Release 15)
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Identity Module (USIM) application test specification
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– Universal Subscriber Identity Module (USIM) conformance
test specification (3GPP TS 31.122 version 15.0.0 Release 15)
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Universal Mobile Telecommunications System (UMTS)
– LTE – Mobile Equipment (ME) conformance test
specification – Universal Subscriber Identity Module
Application Toolkit (USAT) conformance test specification
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– LTE – Mobile Equipment (ME) conformance test
specification – Universal Subscriber Identity Module
Application Toolkit (USAT) conformance test specification
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(GSM) – Universal Mobile Telecommunications System (UMTS)
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– Universal Mobile Telecommunications System (UMTS)
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Application Programming Interface (API) – ISIM API for Java
Card (3GPP TS 31.133 version 15.0.0 Release 15)
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applications (3GPP TS 31.220 version 15.0.0 Release 15)
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Interface (API) – Contact Manager API for Java Card
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(FNIM) (3GPP TS 32.107 version 15.0.0 Release 15)
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management – Fault
Management – Part 1: 3G fault management requirements
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– Universal Mobile Telecommunications System (UMTS)
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– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Fault Management
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Management (AAM) Integration Reference Point (IRP):
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– Universal Mobile Telecommunications System (UMTS)
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Management (AAM) Integration Reference Point (IRP):
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
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Reference Point (IRP) – Solution Set (SS) definitions
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– Concepts and requirements (3GPP TS 32.130 version 15.0.0
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
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Forward Compatibility (BFC) – Concept and definitions
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template (3GPP TS 32.155 version 15.0.0 Release 15)
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– Telecommunication management – Fixed Mobile Convergence
(FMC) model repertoire (3GPP TS 32.156 version 11.3.0
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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 15.0.0 Release 15)
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LTE – 5G – Telecommunication management – Charging management – Exposure function Northbound Application Program Interfaces (APIs) charging (3GPP TS 32.254 version 15.0.0 Release 15)
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5G – Telecommunication management – Charging management – 5G data connectivity domain charging – stage 2 (3GPP TS 32.255 version 15.0.0 Release 15)
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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 15.0.0 Release 15)
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Universal Mobile Telecommunications System (UMTS) – LTE
– Telecommunication management – Charging management – Announcement service (3GPP TS 32.281 version 15.0.0 Release 15)
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5G – Telecommunication management – Charging management – 5G system, charging service – Stage 3 (3GPP TS 32.291 version 15.0.0 Release 15)
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– Universal Mobile Telecommunications System (UMTS) – LTE
– Telecommunication management – Charging management – Proxy function (3GPP TS 32.293 version 15.0.0 Release 15)
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– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Charging management – Charging Data Record (CDR) transfer (3GPP TS 32.295 version 15.0.0 Release 15)
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– Universal Mobile Telecommunications System (UMTS) – LTE
– Telecommunication management – Charging management – Online Charging System (OCS): Applications and interfaces (3GPP TS 32.296 version 15.0.0 Release 15)
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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 15.1.0 Release 15)
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– Universal Mobile Telecommunications System (UMTS) – LTE
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– Universal Mobile Telecommunications System (UMTS) – LTE
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– Universal Mobile Telecommunications System (UMTS) – LTE
– Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 14.7.0 Release 14)
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– Universal Mobile Telecommunications System (UMTS) – LTE
– Telecommunication management – Charging management – Charging Data Record (CDR) parameter description (3GPP TS 32.298 version 15.4.0 Release 15)
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– Universal Mobile Telecommunications System (UMTS) – LTE – Telecommunication management – Charging management – Diameter charging applications (3GPP TS 32.299 version 15.4.0 Release 15)
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Digital cellular telecommunications system (Phase 2+) (GSM)
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– LTE – Telecommunication management – Configuration Management (CM) – Name convention for Managed Objects (3GPP TS 32.300 version 15.0.0 Release 15)
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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 15.0.0 Release 15)
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Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
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Universal Mobile Telecommunications System (UMTS) – LTE
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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 15.0.0 Release 15)
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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 15.0.0 Release 15)
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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 15.0.0 Release 15)
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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 15.0.0 Release 15)
- ETSI TS 132322 V 15.0.0:2018
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 15.0.0 Release 15)

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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
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(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
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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 15.0.0 Release 15)
- ETSI TS 132409 V 15.0.0:2018
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 15.0.0
Release 15)
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Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
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(KPI) for UMTS and GSM (3GPP TS 32.410 version 15.0.0
Release 15)
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– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Performance
Management (PM) Integration Reference Point (IRP):
Requirements (3GPP TS 32.411 version 14.1.0 Release 14)
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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 15.0.0 Release 15)
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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 15.0.0
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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 15.0.0
Release 15)
- ETSI TS 132421 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Subscriber
and equipment trace – Trace concepts and requirements
(3GPP TS 32.421 version 15.0.0 Release 15)
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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 15.1.0 Release 15)
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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 15.0.0 Release 15)
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LTE – Telecommunication management – Performance
Management (PM) – Performance measurements Evolved
Universal Terrestrial Radio Access Network (E-UTRAN)
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Management (PM) – Performance measurements Evolved
Packet Core (EPC) network (3GPP TS 32.426 version 15.1.0
Release 15)
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(GSM) – Universal Mobile Telecommunications System
(UMTS) – LTE – Telecommunication management
– Performance measurement: File format definition
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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 15.0.0 Release 15)
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Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Trace Management
Integration Reference Point (IRP) – Requirements
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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 15.0.0 Release 15)
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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 15.0.0 Release 15)
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Universal Mobile Telecommunications System (UMTS)
– LTE – Telecommunication management – Key
Performance Indicators (KPI) for Evolved Universal
Terrestrial Radio Access Network (E-UTRAN): Definitions
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Indicators (KPI) for Evolved Universal Terrestrial
Radio Access Network (E-UTRAN) – Requirements
(3GPP TS 32.451 version 15.0.0 Release 15)
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Universal Mobile Telecommunications System (UMTS)
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Management (PM) – Performance measurements Home Node
B (HNB) Subsystem (HNS) (3GPP TS 32.452 version 15.0.0
Release 15)
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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 15.0.0 Release 15)
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Universal Mobile Telecommunications System (UMTS) – LTE
– Telecommunication management – Key Performance
Indicators (KPI) for the IP Multimedia Subsystem (IMS)
– Definitions (3GPP TS 32.454 version 15.0.0 Release 15)
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LTE – Telecommunication management – Key Performance
Indicators (KPI) for the Evolved Packet Core (EPC)
– Definitions (3GPP TS 32.455 version 15.0.0 Release 15)
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– Telecommunication management – Self-Organizing Networks
(SON) – Concepts and requirements (3GPP TS 32.500 version 15.0.0
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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 15.0.0 Release 15)
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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 15.0.0 Release 15)

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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 15.0.0 Release 15)
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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 15.0.0 Release 15)
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LTE – Security assurance specification for the PGW network product class (3GPP TS 33.250 version 15.0.0 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – S1 general aspects and principles
(3GPP TS 36.410 version 15.0.0 Release 15)
- ETSI TS 136411 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – S1 layer 1 (3GPP TS 36.411 version 15.0.0
Release 15)
- ETSI TS 136412 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – S1 signalling transport (3GPP TS 36.412 version 15.0.0
Release 15)
- ETSI TS 136413 V 13.8.0:2018
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – S1 Application Protocol (S1AP)
(3GPP TS 36.413 version 13.8.0 Release 13)
- ETSI TS 136413 V 14.8.0:2019
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – S1 Application Protocol (S1AP)
(3GPP TS 36.413 version 14.8.0 Release 14)
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LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – S1 Application Protocol (S1AP)
(3GPP TS 36.413 version 15.3.0 Release 15)
- ETSI TS 136414 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – S1 data transport (3GPP TS 36.414 version 15.0.0
Release 15)
- ETSI TS 136420 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – X2 general aspects and principles
(3GPP TS 36.420 version 15.0.0 Release 15)
- ETSI TS 136421 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – X2 layer 1 (3GPP TS 36.421 version 15.0.0
Release 15)
- ETSI TS 136422 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – X2 signalling transport
(3GPP TS 36.422 version 15.0.0 Release 15)
- ETSI TS 136423 V 14.7.0:2019
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – X2 Application Protocol (X2AP)
(3GPP TS 36.423 version 14.7.0 Release 14)
- ETSI TS 136423 V 15.3.0:2018
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – X2 Application Protocol (X2AP)
(3GPP TS 36.423 version 15.3.0 Release 15)
- ETSI TS 136424 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – X2 data transport (3GPP TS 36.424 version 15.0.0
Release 15)
- ETSI TS 136440 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – General aspects and principles for interfaces
supporting Multimedia Broadcast Multicast Service (MBMS)
within E-UTRAN (3GPP TS 36.440 version 15.0.0 Release 15)
- ETSI TS 136441 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – Layer 1 for interfaces supporting Multimedia
Broadcast Multicast Service (MBMS) within E-UTRAN
(3GPP TS 36.441 version 15.0.0 Release 15)
- ETSI TS 136442 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – Signalling Transport for interfaces supporting
Multimedia Broadcast Multicast Service (MBMS) within
E-UTRAN (3GPP TS 36.442 version 15.0.0 Release 15)
- ETSI TS 136443 V 14.1.0:2018
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – M2 Application Protocol (M2AP)
(3GPP TS 36.443 version 14.1.0 Release 14)
- ETSI TS 136443 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – M2 Application Protocol (M2AP)
(3GPP TS 36.443 version 15.0.0 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – M3 Application Protocol (M3AP)
(3GPP TS 36.444 version 15.0.0 Release 15)
- ETSI TS 136445 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – M1 data transport (3GPP TS 36.445 version 15.0.0
Release 15)
- ETSI TS 136455 V 14.5.0:2018
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – LTE Positioning Protocol A (LPPa)
(3GPP TS 36.455 version 14.5.0 Release 14)
- ETSI TS 136455 V 15.1.0:2018
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) – LTE Positioning Protocol A (LPPa)
(3GPP TS 36.455 version 15.1.0 Release 15)
- ETSI TS 136456 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – SLm interface general aspects and principles
(3GPP TS 36.456 version 15.0.0 Release 15)
- ETSI TS 136457 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Evolved Universal Terrestrial Radio Access Network (E-UTRAN)
– SLm interface layer 1 (3GPP TS 36.457 version 15.0.0 Release 15)
- ETSI TS 136458 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Evolved Universal Terrestrial Radio Access
Network (E-UTRAN) – SLm interface signalling transport
(3GPP TS 36.458 version 15.0.0 Release 15)
- ETSI TS 136459 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access Network
(E-UTRAN) – SLm interface Application Protocol (SLmAP)
(3GPP TS 36.459 version 15.0.0 Release 15)
- ETSI TS 136508 V 14.5.0:2018
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) and Evolved Packet Core (EPC) – Common test
environments for User Equipment (UE) conformance testing
(3GPP TS 36.508 version 14.5.0 Release 14)
- ETSI TS 136508 V 15.3.0:2018
LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) and Evolved Packet Core (EPC) – Common test
environments for User Equipment (UE) conformance testing
(3GPP TS 36.508 version 15.3.0 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access
(E-UTRA) and Evolved Packet Core (EPC) – Special
conformance testing functions for User Equipment (UE)
(3GPP TS 36.509 version 13.8.0 Release 13)
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(E-UTRA) and Evolved Packet Core (EPC) – Special
conformance testing functions for User Equipment (UE)
(3GPP TS 36.509 version 14.6.0 Release 14)

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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Conformance testing (3GPP TS 36.521-1 version 14.6.0 Release 14)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Conformance testing (3GPP TS 36.521-1 version 15.2.0 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Implementation Conformance Statement (ICS) (3GPP TS 36.521-2 version 14.6.0 Release 14)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Implementation Conformance Statement (ICS) (3GPP TS 36.521-2 version 15.3.0 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 14.5.0 Release 14)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – User Equipment (UE) conformance specification – Radio transmission and reception – Part 3: Radio Resource Management (RRM) conformance testing (3GPP TS 36.521-3 version 15.2.1 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 14.4.0 Release 14)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 15.3.0 Release 15)
- ETSI TS 136523-2 V 14.5.0:2018
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 2: Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.523-2 version 14.5.0 Release 14)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 2: Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.523-2 version 15.3.0 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 3: Test suites (3GPP TS 36.523-3 version 14.5.0 Release 14)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification – Part 3: Test suites (3GPP TS 36.523-3 version 15.1.0 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test tolerances for Radio Resource Management (RRM) conformance tests (3GPP TR 36.903 version 13.6.0 Release 13)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test tolerances for Radio Resource Management (RRM) conformance tests (3GPP TR 36.903 version 14.2.0 Release 14)
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LTE – Feasibility study for Further Advancements for E-UTRA (LTE-Advanced) (3GPP TR 36.912 version 15.0.0 Release 15)
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LTE – Requirements for further advancements for Evolved Universal Terrestrial Radio Access (E-UTRA) (LTE-Advanced) (3GPP TR 36.913 version 15.0.0 Release 15)
- ETSI TR 136921 V 15.0.1:2018
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – FDD Home eNode B (HeNB) Radio Frequency (RF) requirements analysis (3GPP TR 36.921 version 15.0.1 Release 15)
- ETSI TR 136922 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – TDD Home eNode B (HeNB) Radio Frequency (RF) requirements analysis (3GPP TR 36.922 version 15.0.0 Release 15)
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Potential solutions for energy saving for E-UTRAN (3GPP TR 36.927 version 15.0.0 Release 15)
- ETSI TR 136931 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Frequency (RF) requirements for LTE Pico Node B (3GPP TR 36.931 version 15.0.0 Release 15)
- ETSI TR 136932 V 15.0.0:2018
LTE – Scenarios and requirements for small cell enhancements for E-UTRA and E-UTRAN (3GPP TR 36.932 version 15.0.0 Release 15)
- ETSI TR 136942 V 15.0.0:2018
LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio Frequency (RF) system scenarios (3GPP TR 36.942 version 15.0.0 Release 15)
- ETSI TS 137104 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception (3GPP TS 37.104 version 15.4.0 Release 15)
- ETSI TS 137113 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) Electromagnetic Compatibility (EMC) (3GPP TS 37.113 version 15.4.0 Release 15)
- ETSI TS 137141 V 13.11.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 13.11.0 Release 13)
- ETSI TS 137141 V 14.8.0:2019
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 14.8.0 Release 14)
- ETSI TS 137141 V 15.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Universal Mobile Telecommunications System (UMTS) – LTE – E-UTRA, UTRA and GSM/EDGE – Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 15.4.0 Release 15)
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Universal Mobile Telecommunications System (UMTS) – LTE – Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA) – Radio measurement collection for Minimization of Drive Tests (MDT) – Overall description – Stage 2 (3GPP TS 37.320 version 15.0.0 Release 15)

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Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC)
– User Equipment (UE) conformance specification for UE positioning – Part 1: Conformance test specification (3GPP TS 37.571-1 version 14.5.0 Release 14)
- ETSI TS 137571-1 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC)
– User Equipment (UE) conformance specification for UE positioning – Part 1: Conformance test specification (3GPP TS 37.571-1 version 15.3.0 Release 15)
- ETSI TS 137571-2 V 14.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC)
– User Equipment (UE) conformance specification for UE positioning – Part 2: Protocol conformance (3GPP TS 37.571-2 version 14.4.0 Release 14)
- ETSI TS 137571-2 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC)
– User Equipment (UE) conformance specification for UE positioning – Part 2: Protocol conformance (3GPP TS 37.571-2 version 15.3.0 Release 15)
- ETSI TS 137571-3 V 14.4.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 3: Implementation Conformance Statement (ICS) (3GPP TS 37.571-3 version 14.4.0 Release 14)
- ETSI TS 137571-3 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 3: Implementation Conformance Statement (ICS) (3GPP TS 37.571-3 version 15.3.0 Release 15)
- ETSI TS 137571-4 V 13.5.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 4: Test suites (3GPP TS 37.571-4 version 13.5.0 Release 13)
- ETSI TS 137571-4 V 14.4.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC) – User Equipment (UE) conformance specification for UE positioning – Part 4: Test suites (3GPP TS 37.571-4 version 14.4.0 Release 14)
- ETSI TS 137571-5 V 14.3.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC)
– User Equipment (UE) conformance specification for UE positioning – Part 5: Test scenarios and assistance data (3GPP TS 37.571-5 version 14.3.0 Release 14)
- ETSI TS 137571-5 V 15.3.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC)
– User Equipment (UE) conformance specification for UE positioning – Part 5: Test scenarios and assistance data (3GPP TS 37.571-5 version 15.3.0 Release 15)
- ETSI TR 137900 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Universal Mobile Telecommunications System (UMTS)
– LTE – Radio Frequency (RF) requirements for Multicarrier and Multiple Radio Access Technology (Multi-RAT) Base Station (BS) (3GPP TR 37.900 version 15.0.0 Release 15)
- ETSI TR 137901 V 12.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– User Equipment (UE) application layer data throughput performance (3GPP TR 37.901 version 12.0.0 Release 12)
- ETSI TR 137901 V 13.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– User Equipment (UE) application layer data throughput performance (3GPP TR 37.901 version 13.0.0 Release 13)
- ETSI TR 137901 V 14.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– User Equipment (UE) application layer data throughput performance (3GPP TR 37.901 version 14.0.0 Release 14)
- ETSI TR 137901 V 15.1.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– User Equipment (UE) application layer data throughput performance (3GPP TR 37.901 version 15.1.0 Release 15)
- ETSI TR 137902 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Measurements of User Equipment (UE) radio performances for LTE/UMTS terminals – Total Radiated Power (TRP) and Total Radiated Sensitivity (TRS) test methodology (3GPP TR 37.902 version 15.0.0 Release 15)
- ETSI TR 137976 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS)
– LTE – Measurement of radiated performance for Multiple Input Multiple Output (MIMO) and multi-antenna reception for High Speed Packet Access (HSPA) and LTE terminals (3GPP TR 37.976 version 15.0.0 Release 15)
- ETSI TR 137977 V 14.6.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA) – Verification of radiated multi-antenna reception performance of User Equipment (UE) (3GPP TR 37.977 version 14.6.0 Release 14)
- ETSI TR 137977 V 15.0.0:2018
Universal Mobile Telecommunications System (UMTS) – LTE
– Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA) – Verification of radiated multi-antenna reception performance of User Equipment (UE) (3GPP TR 37.977 version 15.0.0 Release 15)
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5G – Study on New Radio (NR) access technology (3GPP TR 38.912 version 15.0.0 Release 15)
- ETSI TR 138913 V 15.0.0:2018
5G – Study on scenarios and requirements for next generation access technologies (3GPP TR 38.913 version 15.0.0 Release 15)
- ETSI TR 141031 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Fraud Information Gathering System (FIGS) – Service requirements – Stage 0 (3GPP TR 41.031 version 15.0.0 Release 15)
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Digital cellular telecommunications system (Phase 2+) (GSM)
– Technical Specifications and Technical Reports for a GERAN-based 3GPP system (3GPP TS 41.101 version 15.0.1 Release 15)
- ETSI TS 142043 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– Support of Localised Service Area (SoLSA) – Service description – Stage 1 (3GPP TS 42.043 version 15.0.0 Release 15)
- ETSI TS 142056 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM)
– GSM Cordless Telephony System (CTS), Phase 1 – Service description – Stage 1 (3GPP TS 42.056 version 15.0.0 Release 15)
- ETSI TS 142068 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Voice Group Call Service (VGCS) – Stage 1 (3GPP TS 42.068 version 15.0.0 Release 15)
- ETSI TS 142069 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Voice Broadcast Service (VBS) – Stage 1 (3GPP TS 42.069 version 15.0.0 Release 15)

- ETSI TS 143005 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Technical performance objectives (3GPP TS 43.005 version 15.0.0 Release 15)
- ETSI TS 143010 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – GSM Public Land Mobile Network (PLMN) connection types (3GPP TS 43.010 version 15.0.0 Release 15)
- ETSI TS 143013 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Discontinuous Reception (DRX) in the GSM system (3GPP TS 43.013 version 15.0.0 Release 15)
- ETSI TS 143020 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Security related network functions (3GPP TS 43.020 version 15.0.0 Release 15)
- ETSI TS 143022 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Functions related to Mobile Station (MS) in idle mode and group receive mode (3GPP TS 43.022 version 15.0.0 Release 15)
- ETSI TR 143026 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Multiband operation of GSM/DCS 1800 by a single operator (3GPP TR 43.026 version 15.0.0 Release 15)
- ETSI TR 143030 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Radio network planning aspects (3GPP TR 43.030 version 15.0.0 Release 15)
- ETSI TS 143045 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Technical realization of facsimile group 3 transparent (3GPP TS 43.045 version 15.0.0 Release 15)
- ETSI TS 143050 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Transmission planning aspects of the speech service in the GSM Public Land Mobile Network (PLMN) system (3GPP TS 43.050 version 15.0.0 Release 15)
- ETSI TS 143051 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – GSM/EDGE Overall description – Stage 2 (3GPP TS 43.051 version 15.0.0 Release 15)
- ETSI TS 143052 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – GSM Cordless Telephony System (CTS), Phase 1 – Lower Layers of the CTS Radio Interface, Stage 2 (3GPP TS 43.052 version 15.0.0 Release 15)
- ETSI TS 143055 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Dual Transfer Mode (DTM) – Stage 2 (3GPP TS 43.055 version 15.0.0 Release 15)
- ETSI TR 143058 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs) (3GPP TR 43.058 version 15.0.0 Release 15)
- ETSI TS 143059 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Functional stage 2 description of Location Services (LCS) in GERAN (3GPP TS 43.059 version 15.1.0 Release 15)
- ETSI TS 143064 V 14.4.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – General Packet Radio Service (GPRS) – Overall description of the GPRS radio interface – Stage 2 (3GPP TS 43.064 version 14.4.0 Release 14)
- ETSI TS 143064 V 15.1.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – General Packet Radio Service (GPRS) – Overall description of the GPRS radio interface – Stage 2 (3GPP TS 43.064 version 15.1.0 Release 15)
- ETSI TS 143068 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Voice Group Call Service (VGCS) – Stage 2 (3GPP TS 43.068 version 15.0.0 Release 15)
- ETSI TS 143069 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Voice Broadcast Service (VBS) – Stage 2 (3GPP TS 43.069 version 15.0.0 Release 15)
- ETSI TS 143073 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Support of Localised Service Area (SoLSA) – Stage 2 (3GPP TS 43.073 version 15.0.0 Release 15)
- ETSI TS 143129 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Packet-switched handover for GERAN A/Gb mode – Stage 2 (3GPP TS 43.129 version 15.0.0 Release 15)
- ETSI TS 143130 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – GSM/EDGE Iur-g interface – Stage 2 (3GPP TS 43.130 version 15.0.0 Release 15)
- ETSI TS 143246 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Multimedia Broadcast/Multicast Service (MBMS) in the GERAN – Stage 2 (3GPP TS 43.246 version 15.0.0 Release 15)
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Digital cellular telecommunications system (Phase 2+) (GSM) – Generic Access Network (GAN) – Stage 2 (3GPP TS 43.318 version 15.0.0 Release 15)
- ETSI TR 143901 V 15.0.0:2018
Digital cellular telecommunications system (Phase 2+) (GSM) – Feasibility Study on generic access to A/Gb interface (3GPP TR 43.901 version 15.0.0 Release 15)
- ETSI TR 143902 V 15.0.0:2018
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LTE – Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN) – Derivation of test points for radio transmission and reception conformance test cases (3GPP TR 36.905 version 15.2.0 Release 15)
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LTE – Study on Context Aware Service Delivery in RAN for LTE (3GPP TR 36.933 version 15.0.0 Release 15)
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Universal Mobile Telecommunications System (UMTS) – LTE – Active Antenna System (AAS) Base Station (BS) transmission and reception (3GPP TS 37.105 version 14.4.0 Release 14)
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- ETSI TS 137106 V 15.0.0:2018
LTE – User Equipment (UE) requirements for shared spectrum channel access (3GPP TS 37.106 version 15.0.0 Release 15)
- ETSI TS 137107 V 15.1.0:2018
LTE – Base Station (BS) requirements and conformance tests for shared spectrum channel access (3GPP TS 37.107 version 15.1.0 Release 15)
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Universal Mobile Telecommunications System (UMTS) – LTE – Digital cellular telecommunications system (Phase 2+) (GSM) – User Equipment (UE) and Mobile Station (MS) GSM, UTRA and E-UTRA over the air performance requirements (3GPP TS 37.144 version 14.7.0 Release 14)
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5G – NR – User Equipment (UE) radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.101-1 version 15.3.0 Release 15)
- ETSI TS 138101-2 V 15.3.0:2018
5G – NR – User Equipment (UE) radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.101-2 version 15.3.0 Release 15)
- ETSI TS 138101-3 V 15.3.0:2018
5G – NR – User Equipment (UE) radio transmission and reception – Part 3: Range 1 and Range 2 Interworking operation with other radios (3GPP TS 38.101-3 version 15.3.0 Release 15)
- ETSI TS 138104 V 15.3.0:2018
5G – NR – Base Station (BS) radio transmission and reception (3GPP TS 38.104 version 15.3.0 Release 15)
- ETSI TS 138113 V 15.3.0:2018
5G – NR – Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 15.3.0 Release 15)
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5G – NR – Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment (3GPP TS 38.124 version 15.1.0 Release 15)
- ETSI TS 138133 V 15.3.0:2018
5G – NR – Requirements for support of radio resource management (3GPP TS 38.133 version 15.3.0 Release 15)

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5G – NR – Physical layer – General description
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- ETSI TS 138202 V 15.3.0:2018
5G – NR – Services provided by the physical layer
(3GPP TS 38.202 version 15.3.0 Release 15)
- ETSI TS 138211 V 15.3.0:2018
5G – NR – Physical channels and modulation
(3GPP TS 38.211 version 15.3.0 Release 15)
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5G – NR – Multiplexing and channel coding
(3GPP TS 38.212 version 15.3.0 Release 15)
- ETSI TS 138213 V 15.3.0:2018
5G – NR – Physical layer procedures for control
(3GPP TS 38.213 version 15.3.0 Release 15)
- ETSI TS 138214 V 15.3.0:2018
5G – NR – Physical layer procedures for data
(3GPP TS 38.214 version 15.3.0 Release 15)
- ETSI TS 138215 V 15.3.0:2018
5G – NR – Physical layer measurements
(3GPP TS 38.215 version 15.3.0 Release 15)
- ETSI TS 138300 V 15.3.1:2018
5G – NR – Overall description – Stage-2
(3GPP TS 38.300 version 15.3.1 Release 15)
- ETSI TS 138304 V 15.1.0:2018
5G – NR – User Equipment (UE) procedures in idle mode and in RRC Inactive state (3GPP TS 38.304 version 15.1.0 Release 15)
- ETSI TS 138305 V 15.1.0:2018
5G – NG Radio Access Network (NG-RAN) – Stage 2 functional specification of User Equipment (UE) positioning in NG-RAN (3GPP TS 38.305 version 15.1.0 Release 15)
- ETSI TS 138306 V 15.3.0:2018
5G – NR – User Equipment (UE) radio access capabilities
(3GPP TS 38.306 version 15.3.0 Release 15)
- ETSI TS 138307 V 15.1.0:2018
5G – NR – Requirements on User Equipments (UEs) supporting a release-independent frequency band
(3GPP TS 38.307 version 15.1.0 Release 15)
- ETSI TS 138321 V 15.3.0:2018
5G – NR – Medium Access Control (MAC) protocol specification (3GPP TS 38.321 version 15.3.0 Release 15)
- ETSI TS 138322 V 15.3.0:2018
5G – NR – Radio Link Control (RLC) protocol specification
(3GPP TS 38.322 version 15.3.0 Release 15)
- ETSI TS 138323 V 15.3.0:2018
5G – NR – Packet Data Convergence Protocol (PDCP) specification (3GPP TS 38.323 version 15.3.0 Release 15)
- ETSI TS 138331 V 15.3.0:2018
5G – NR – Radio Resource Control (RRC) – Protocol specification (3GPP TS 38.331 version 15.3.0 Release 15)
- ETSI TS 138401 V 15.3.0:2018
5G – NG-RAN – Architecture description
(3GPP TS 38.401 version 15.3.0 Release 15)
- ETSI TS 138410 V 15.1.0:2018
5G – NG-RAN – NG general aspects and principles
(3GPP TS 38.410 version 15.1.0 Release 15)
- ETSI TS 138411 V 15.0.0:2018
5G – NG-RAN – NG layer 1 (3GPP TS 38.411 version 15.0.0 Release 15)
- ETSI TS 138412 V 15.1.0:2018
5G – NG-RAN – NG signalling transport
(3GPP TS 38.412 version 15.1.0 Release 15)
- ETSI TS 138413 V 15.1.0:2018
5G – NG-RAN – NG Application Protocol (NGAP)
(3GPP TS 38.413 version 15.1.0 Release 15)
- ETSI TS 138414 V 15.1.0:2018
5G – NG-RAN – NG data transport
(3GPP TS 38.414 version 15.1.0 Release 15)
- ETSI TS 138415 V 15.1.0:2018
5G – NG-RAN – PDU Session User Plane protocol
(3GPP TS 38.415 version 15.1.0 Release 15)
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5G – NG-RAN – Xn general aspects and principles
(3GPP TS 38.420 version 15.1.0 Release 15)
- ETSI TS 138421 V 15.0.0:2018
5G – NG-RAN – Xn layer 1
(3GPP TS 38.421 version 15.0.0 Release 15)
- ETSI TS 138422 V 15.1.0:2018
5G – NG-RAN – Xn signalling transport
(3GPP TS 38.422 version 15.1.0 Release 15)
- ETSI TS 138423 V 15.1.0:2018
5G – NG-RAN – Xn Application Protocol (XnAP)
(3GPP TS 38.423 version 15.1.0 Release 15)
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5G – NG-RAN – Xn data transport
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5G – NG-RAN – NR user plane protocol
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- ETSI TS 138455 V 15.1.0:2018
5G – NG-RAN – NR Positioning Protocol A (NRPPa)
(3GPP TS 38.455 version 15.1.0 Release 15)
- ETSI TS 138460 V 15.1.0:2018
5G – NG-RAN – E1 general aspects and principles
(3GPP TS 38.460 version 15.1.0 Release 15)
- ETSI TS 138461 V 15.0.0:2018
5G – NG-RAN – E1 layer 1 (3GPP TS 38.461 version 15.0.0 Release 15)
- ETSI TS 138462 V 15.1.0:2018
5G – NG-RAN – E1 signalling transport
(3GPP TS 38.462 version 15.1.0 Release 15)
- ETSI TS 138463 V 15.1.0:2018
5G – NG-RAN – E1 Application Protocol (E1AP)
(3GPP TS 38.463 version 15.1.0 Release 15)
- ETSI TS 138470 V 15.3.0:2018
5G – NG-RAN – F1 general aspects and principles
(3GPP TS 38.470 version 15.3.0 Release 15)
- ETSI TS 138471 V 15.0.0:2018
5G – NG-RAN – F1 layer 1
(3GPP TS 38.471 version 15.0.0 Release 15)
- ETSI TS 138472 V 15.2.0:2018
5G – NG-RAN – F1 signalling transport
(3GPP TS 38.472 version 15.2.0 Release 15)
- ETSI TS 138473 V 15.3.0:2018
5G – NG-RAN – F1 Application Protocol (F1AP)
(3GPP TS 38.473 version 15.3.0 Release 15)
- ETSI TS 138474 V 15.2.0:2018
5G – NG-RAN – F1 data transport
(3GPP TS 38.474 version 15.2.0 Release 15)
- ETSI TS 138508-1 V 15.1.0:2018
5G – 5GS – User Equipment (UE) conformance specification – Part 1: Common test environment
(3GPP TS 38.508-1 version 15.1.0 Release 15)
- ETSI TS 138508-2 V 15.1.0:2018
5G – 5GS – User Equipment (UE) conformance specification – Part 2: Common Implementation Conformance Statement (ICS) proforma (3GPP TS 38.508-2 version 15.1.0 Release 15)
- ETSI TS 138509 V 15.1.0:2018
5G – 5GS – Special conformance testing functions for User Equipment (UE) (3GPP TS 38.509 version 15.1.0 Release 15)
- ETSI TS 138521-1 V 15.0.0:2018
5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.521-1 version 15.0.0 Release 15)

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5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.521-2 version 15.0.0 Release 15)

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5G – NG-RAN – NR user plane protocol (3GPP TS 38.425 version 15.3.0 Release 15)

ETSI TS 138455 V 15.1.0:2018
5G – NG-RAN – NR Positioning Protocol A (NRPPa) (3GPP TS 38.455 version 15.1.0 Release 15)

ETSI TS 138460 V 15.1.0:2018
5G – NG-RAN – E1 general aspects and principles (3GPP TS 38.460 version 15.1.0 Release 15)

ETSI TS 138461 V 15.0.0:2018
5G – NG-RAN – E1 layer 1 (3GPP TS 38.461 version 15.0.0 Release 15)

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5G – NG-RAN – E1 signalling transport (3GPP TS 38.462 version 15.1.0 Release 15)

ETSI TS 138463 V 15.1.0:2018
5G – NG-RAN – E1 Application Protocol (E1AP) (3GPP TS 38.463 version 15.1.0 Release 15)

ETSI TS 138470 V 15.3.0:2018
5G – NG-RAN – F1 general aspects and principles (3GPP TS 38.470 version 15.3.0 Release 15)

ETSI TS 138471 V 15.0.0:2018
5G – NG-RAN – F1 layer 1 (3GPP TS 38.471 version 15.0.0 Release 15)

ETSI TS 138472 V 15.2.0:2018
5G – NG-RAN – F1 signalling transport (3GPP TS 38.472 version 15.2.0 Release 15)

ETSI TS 138473 V 15.3.0:2018
5G – NG-RAN – F1 Application Protocol (F1AP) (3GPP TS 38.473 version 15.3.0 Release 15)

ETSI TS 138474 V 15.2.0:2018
5G – NG-RAN – F1 data transport (3GPP TS 38.474 version 15.2.0 Release 15)

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5G – 5GS – User Equipment (UE) conformance specification – Part 1: Common test environment (3GPP TS 38.508-1 version 15.1.0 Release 15)

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5G – 5GS – Special conformance testing functions for User Equipment (UE) (3GPP TS 38.509 version 15.1.0 Release 15)

ETSI TS 138521-1 V 15.0.0:2018
5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 1: Range 1 Standalone (3GPP TS 38.521-1 version 15.0.0 Release 15)

ETSI TS 138521-2 V 15.0.0:2018
5G – NR – User Equipment (UE) conformance specification – Radio transmission and reception – Part 2: Range 2 Standalone (3GPP TS 38.521-2 version 15.0.0 Release 15)

ETSI GS MEC 009 V 2.1.1:2019
Multi-access Edge Computing (MEC) – General principles for MEC Service APIs

ETSI GS MEC 026 V 2.1.1:2019
Multi-access Edge Computing (MEC) – Support for regulatory requirements

ETSI GS NGP 012 V 1.1.1:2018
KPIs for Next Generation Protocols: Basis for measuring benefits of NGP

ETSI GS NGP 013 V 1.1.1:2018
Next Generation Protocols (NGP) – Flexilink: efficient deterministic packet forwarding in user plane for NGP – Packet formats and forwarding mechanisms

33.100.01 Elektromagnetska kompatibilnost općenito

Europska normizacija ETSI

EN 302077 V 2.1.1:2018
Transmitting equipment for the Digital Audio Broadcasting (DAB) service – Harmonised Standard for access to radio spectrum

EN 302245 V 2.1.1:2018
Transmitting equipment for the Digital Radio Mondiale (DRM) sound broadcasting service – Harmonised Standard for access to radio spectrum

Međunarodna normizacija IEC

IEC/TR 61000-1-8:2019
Electromagnetic compatibility – Part 1-8: General – Phase angles of harmonic current emissions and voltages in the public supply networks – Future expectations

33.100.10 Zračenje

Europska normizacija ETSI

EN 300220-2 V 3.2.1:2018
Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz – Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment

EN 302296 V 2.1.1:2017-06
Digital Terrestrial TV Transmitters – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

ETSI TS 102361-4 V 1.9.2:2018
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) Systems – Part 4: DMR trunking protocol

ETSI TR 102398 V 1.4.1:2018
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Digital Mobile Radio (DMR) General System Design

ETSI TS 102658 V 2.6.1:2019
Digital Private Mobile Radio (dPMR) using FDMA with a channel spacing of 6,25 kHz

ETSI TR 102884 V 1.3.1:2018
Electromagnetic compatibility and Radio spectrum Matters (ERM) – digital Private Mobile Radio (dPMR) General System Design

ETSI TR 103181-3 V 2.1.1:2019
Short Range Devices (SRD) using Ultra Wide Band (UWB) – Part 3: Worldwide UWB regulations between 3,1 and 10,6 GHz

ETSI TR 103265 V 1.2.1:2018
Electromagnetic compatibility and Radio spectrum Matters (ERM) – Definition of radio parameters

ETSI TS 103357 V 1.1.1:2018
Short Range Devices – Low Throughput Networks (LTN) – Protocols for radio interface A

ETSI TS 103358 V 1.1.1:2018
Short range devices – Low Throughput Networks (LTN) Architecture – LTN Architecture

ETSI TR 103441 V 1.1.1:2018
System Reference document (SRdoc) – Pan-European harmonized communications equipment operating in the 5 GHz frequency range for regulated applications for commercial vehicles

ETSI TR 103492 V 1.1.1:2019
System Reference document (SRdoc) – Critical Infrastructure Utility Operations requirements for Smart Grid systems, other radio systems, and future radio spectrum access arrangements below 1,5 GHz

ETSI TR 103517 V 1.1.1:2018
System Reference document (SRdoc) – Short Range Devices (SRD) using Nuclear Magnetic Resonance (NMR) – Technical characteristics for SRD equipment using Nuclear Magnetic Resonance (NMR) technology in the frequency range 0,1 kHz to 130 MHz

ETSI TR 103524 V 1.1.1:2018
System Reference document (SRdoc) – Wireless access systems including radio local area networks (WAS/RLANs) in the band 5925 MHz to 6725 MHz

ETSI TR 103526 V 1.1.1:2018
System Reference document (SRdoc) – Technical characteristics for Low Power Wide Area Networks Chirp Spread Spectrum (LPWAN-CSS) operating in the UHF spectrum below 1 GHz

ETSI TR 103566 V 1.1.1:2018
Evaluation status on receiver requirement on Signal interferer handling

ETSI TR 103594 V 1.1.1:2018
System Reference document (SRdoc) – Short Range Devices (SRD) using Ultra Wide Band (UWB) – Technical characteristics and spectrum requirements for High-Definition Ground Based Synthetic Aperture Radars (HD-GBSAR) operating in 1 GHz band within 74 GHz to 81 GHz tuning range

Međunarodna normizacija IEC

IEC/TR 61000-1-8:2019
Electromagnetic compatibility – Part 1-8: General – Phase angles of harmonic current emissions and voltages in the public supply networks – Future expectations

33.100.20 Otpornost

Međunarodna normizacija ISO

ISO 11452-2:2019
Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Absorber-lined shielded enclosure

33.120.10 Koaksijalni kabe- . Valovodi

Međunarodna normizacija IEC

IEC/TR 62839-2:2019
Environmental declaration – Part 2: Optical/copper telecom accessories products specific rules

33.120.20 Źice i simetrični kabe-

Međunarodna normizacija IEC

IEC 62783-1:2019
Twinax cables for digital communications – Part 1: Generic specification

IEC 62783-2:2019
Twinax cables for digital communications – Part 2: Family specification – Cable for Ethernet-over-twinax physical interfaces

33.120.40 Antene

Europska normizacija ETSI

EN 303316 V 1.2.1:2018
Broadband Direct Air-to-Ground Communications – Equipment operating in the 1900 MHz to 1920 MHz and 5855 MHz to 5875 MHz frequency bands – Beamforming antennas – Harmonised Standard for access to radio spectrum

33.160.10 Pojačala

Međunarodna normizacija IEC

IEC/TR 61292-8:2019
Optical amplifiers – Part 8: High-power amplifiers

33.160.30 Audiosustavi

Međunarodna normizacija IEC

IEC 61937-5 AMD 1:2019
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 5: Non-linear PCM bitstreams according to the DTS (Digital Theater Systems) format(s)

IEC 61937-5 Edition 2.1:2019
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 5: Non-linear PCM bitstreams according to the DTS (Digital Theater Systems) format(s)

33.170 Televizijski i radijski prijenos

Europska normizacija ETSI

EN 300743 V 1.6.1:2018
Digital Video Broadcasting (DVB) – Subtitling systems

EN 302077 V 2.1.1:2018
Transmitting equipment for the Digital Audio Broadcasting (DAB) service – Harmonised Standard for access to radio spectrum

EN 302245 V 2.1.1:2018
Transmitting equipment for the Digital Radio Mondiale (DRM) sound broadcasting service – Harmonised Standard for access to radio spectrum

EN 302296 V 2.1.1:2017-06
Digital Terrestrial TV Transmitters – Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN 303146-1 V 1.3.1:2018
Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 1: Multiradio Interface (MURI)

EN 303146-3 V 1.3.1:2018
Reconfigurable Radio Systems (RRS) – Mobile Device (MD) information models and protocols – Part 3: Unified Radio Application Interface (URAI)

EN 303316 V 1.2.1:2018
Broadband Direct Air-to-Ground Communications – Equipment operating in the 1900 MHz to 1920 MHz and 5855 MHz to 5875 MHz frequency bands – Beamforming antennas – Harmonised Standard for access to radio spectrum

EN 303560 V 1.1.1:2018
Digital Video Broadcasting (DVB) – TTML subtitling systems

ETSI TS 101154 V 2.5.1:2019
Digital Video Broadcasting (DVB) – Specification for the use of Video and Audio Coding in Broadcast and Broadband Applications

ETSI TS 102114 V 1.5.1:2018
DTS Coherent Acoustics – Core and Extensions with Additional Profiles

ETSI TS 102796 V 1.5.1:2018
Hybrid Broadcast Broadband TV

ETSI TS 103176 V 2.2.1:2018
Digital Audio Broadcasting (DAB) – Rules of implementation – Service information features

ETSI TS 103285 V 1.2.1:2018
Digital Video Broadcasting (DVB) – MPEG-DASH Profile for Transport of ISO BMFF Based DVB Services over IP Based Networks

ETSI TS 103420 V 1.2.1:2018
Backwards-compatible object audio carriage using Enhanced AC-3

ETSI TR 103552 V 1.2.1:2019
Study item on VHF Data Link Mode 2 ground-based equipment standardization optimization – Evolution of Data Link European Norms

ETSI TS 103572 V 1.1.2:2018
HDR Signalling and Carriage of Dynamic Metadata for Colour Volume Transform – Application no 1 for DVB compliant systems

ETSI TS 103605 V 1.1.1:2018
Digital Video Broadcasting (DVB) – Second Generation Common Interface (CI) – Implementation Using the Universal Serial Bus (USB)

ETSI TS 103606 V 1.1.1:2018
Hybrid Broadcast Broadband Television – Operator Applications

ETSI TS 103615 V 1.1.1:2018
Digital Video Broadcasting (DVB) – Metadata generation and deterministic DVB-T-mega-frame/DVB-T2-MI stream generation from MPEG-2 Transport Stream(s) for a DVB Single Illumination System (DVB-SIS)

ETSI TS 103632 V 1.1.1:2018
Digital Audio Broadcasting (DAB) – Open Mobile Radio Interface (OMRI) – Application Programming Interface (API)

ETSI GR mWT 008 V 1.1.1:2018
millimetre Wave Transmission (mWT) – Analysis of Spectrum, License Schemes and Network Scenarios in the D-band

33.180.10 Svjetlovodna vlakna i kabeli

Međunarodna normizacija IEC

IEC 60332-3-24 Interpretation Sheet 1:2019
Tests on electric and optical fibre cables under fire conditions – Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C; Interpretation sheet 1

33.180.20 Svjetlovodne vezne naprave

Međunarodna normizacija IEC

IEC 61300-2-4:2019
Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre or cable retention

33.180.30 Optička pojačala

Međunarodna normizacija IEC

IEC/TR 61292-8:2019
Optical amplifiers – Part 8: High-power amplifiers

33.200 Daljinsko upravljanje. Daljinsko mjerenje

Europska normizacija ETSI

ETSI TR 103506 V 1.1.1:2018
SmartM2M – SAREF extension investigation – Requirements for Smart Cities

ETSI TR 103507 V 1.1.1:2018
SmartM2M – SAREF extension investigation – Requirements for industry and manufacturing domains

ETSI TR 103511 V 1.1.1:2018
SmartM2M – SAREF extension investigation – Requirements for AgriFood domain

ETSI TR 103527 V 1.1.1:2018
SmartM2M – Virtualized IoT Architectures with Cloud Back-ends

ETSI TR 103528 V 1.1.1:2018
SmartM2M – Landscape for open source and standards for cloud native software applicable for a Virtualized IoT service layer

ETSI TR 103529 V 1.1.1:2018
SmartM2M – IoT over Cloud back-ends: A Proof of Concept

ETSI TR 103545 V 1.1.1:2018
SmartM2M – Pilot test definition and guidelines for testing cooperation between oneM2M and Ag equipment standards

Međunarodna normizacija IEC

IEC/TR 61850-7-6:2019
Communication networks and systems for power utility automation – Part 7-6: Guideline for definition of Basic Application Profiles (BAPs) using IEC 61850

35.020 Informacijska tehnologija (IT) općenito

Europska normizacija ETSI

EN 303471 V 1.1.1:2019
Environmental Engineering (EE) – Energy Efficiency measurement methodology and metrics for Network Function Virtualisation (NFV)

ETSI TS 110174-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Sustainable Digital Multiservice Cities (SDMC) – Broadband Deployment and Energy Management – Part 1: Overview, common and generic aspects of societal and technical pillars for sustainability

35.030 Informatička sigurnost

Europska normizacija ETSI

ETSI TS 101053-2 V 2.5.1:2018
Rules for the management of the TETRA standard encryption algorithms – Part 2: TEA2

ETSI TR 103305-1 V 3.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 1: The Critical Security Controls

ETSI TR 103305-2 V 2.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 2: Measurement and auditing

ETSI TR 103305-3 V 2.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 3: Service Sector Implementations

ETSI TR 103305-4 V 2.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 4: Facilitation Mechanisms

ETSI TR 103305-5 V 1.1.1:2018
CYBER – Critical Security Controls for Effective Cyber Defence – Part 5: Privacy enhancement

ETSI TR 103306 V 1.3.1:2018
CYBER – Global Cyber Security Ecosystem

ETSI TS 103307 V 1.3.1:2018
CYBER – Security Aspects for LI and RD Interfaces

- ETSI TR 103370 V 1.1.1:2019
Practical introductory guide to Technical Standards for Privacy
- ETSI TS 103457 V 1.1.1:2018
CYBER – Trusted Cross-Domain Interface: Interface to offload sensitive functions to a trusted domain
- ETSI TS 103458 V 1.1.1:2018
CYBER – Application of Attribute Based Encryption (ABE) for PII and personal data protection on IoT devices, WLAN, cloud and mobile services – High level requirements
- ETSI TS 103523-3 V 1.1.1:2018
CYBER – Middlebox Security Protocol – Part 3: Profile for enterprise network and data centre access control
- ETSI TS 103532 V 1.1.1:2018
CYBER – Attribute Based Encryption for Attribute Based Access Control
- ETSI TR 103642 V 1.1.1:2018
CYBER – Security techniques for protecting software in a white box model
- ETSI GS ISI 007 V 1.1.1:2018
Information Security Indicators (ISI) – Guidelines for building and operating a secured Security Operations Center (SOC)
- ETSI GS ISI 008 V 1.1.1:2018
Information Security Indicators (ISI) – Description of an Overall Organization-wide Security Information and Event Management (SIEM) Approach

Međunarodna normizacija

ISO/IEC

- ISO/IEC 9798-3:2019
IT Security techniques – Entity authentication – Part 3: Mechanisms using digital signature techniques
- ISO/IEC 27018:2019
Information technology – Security techniques – Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors

35.040.01 Kodiranje informacija općenito

Europska normizacija

ETSI

- EN 319522-4-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 2: Evidence and identification bindings

35.040.10 Kodiranje skupova znakova

Međunarodna normizacija

ISO/IEC

- ISO/IEC 10646 AMD 1:2019
Information technology – Universal Coded Character Set (UCS) – Amendment 1: Dogra, Gunjala Gondi, Makasar, Medefaidrin, Indic Siyaq Numbers and other characters
- ISO/IEC 14651:2019
Information technology – International string ordering and comparison – Method for comparing character strings and description of the common template tailorable ordering

35.040.40 Kodiranje audioinformacija, videoinformacija, multimedijjskih i hipermedijjskih informacija

Međunarodna normizacija

ISO/IEC

- ISO/IEC 14496-15 AMD 2:2019
Information technology – Coding of audio-visual objects – Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format – Amendment 2: Support for additional brands

- ISO/IEC 14496-22:2019
Information technology – Coding of audio-visual objects – Part 22: Open Font Format
- ISO/IEC 23000-19 AMD 2:2019
Information technology – Multimedia application format (MPEG-A) – Part 19: Common media application format (CMAF) for segmented media – Amendment 2: XHE-AAC and other media profiles
- ISO/IEC 23001-14:2019
Information technology – MPEG systems technologies – Part 14: Partial file format
- ISO/IEC 23008-9:2019
Information technology – High efficiency coding and media delivery in heterogeneous environments – Part 9: 3D Audio conformance testing
- ISO/IEC 23090-2:2019
Information technology – Coded representation of immersive media – Part 2: Omnidirectional media format

IEC

- IEC 61937-5 AMD 1:2019
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 5: Non-linear PCM bitstreams according to the DTS (Digital Theater Systems) format(s)
- IEC 61937-5 Edition 2.1:2019
Digital audio – Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 – Part 5: Non-linear PCM bitstreams according to the DTS (Digital Theater Systems) format(s)

35.080 Softver (programaska podrška)

Europska normizacija

ETSI

- ETSI ES 203119-1 V 1.4.1:2018
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 1: Abstract Syntax and Associated Semantics
- ETSI ES 203119-2 V 1.3.1:2018
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 2: Graphical Syntax
- ETSI ES 203119-3 V 1.3.1:2018
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 3: Exchange Format
- ETSI ES 203119-4 V 1.3.1:2018
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 4: Structured Test Objective Specification (Extension)
- ETSI ES 203119-5 V 1.1.1:2018
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 5: UML profile for TDL
- ETSI ES 203119-6 V 1.1.1:2018
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 6: Mapping to TTCN-3
- ETSI ES 203119-7 V 1.1.1:2018
Methods for Testing and Specification (MTS) – The Test Description Language (TDL) – Part 7: Extended Test Configurations
- ETSI ES 203790 V 1.1.1:2019
Methods for Testing and Specification (MTS) – The Testing and Test Control Notation version 3 – TTCN-3 Language Extensions: Object-Oriented Features
- ETSI GS CIM 004 V 1.1.1:2018
Context Information Management (CIM) – Application Programming Interface (API)
- ETSI GS ENI 002 V 1.1.1:2018
Experiential Networked Intelligence (ENI) – ENI requirements
- ETSI GS ENI 006 V 1.1.1:2018
Experiential Networked Intelligence (ENI) – Proof of Concepts Framework

ETSI GR CIM 002 V 1.1.1:2018
Context Information Management (CIM) – Use Cases (UC)

ETSI GR ENI 001 V 1.1.1:2018
Experiential Networked Intelligence (ENI) – ENI use cases

ETSI GR ENI 003 V 1.1.1:2018
Experiential Networked Intelligence (ENI) – Context-Aware Policy Management Gap Analysis

ETSI GR ENI 004 V 1.1.1:2018
Experiential Networked Intelligence (ENI) – Terminology for Main Concepts in ENI

ETSI GS MEC 014 V 1.1.1:2018
Mobile Edge Computing (MEC) – UE Identity API

ETSI GS ZSM 006 V 1.1.1:2018
Zero touch network and Service Management (ZSM) – Proof of Concept Framework

ETSI GR NFV-IFA 015 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Report on NFV Information Model

ETSI GR NFV-IFA 015 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Report on NFV Information Model

ETSI GR NFV-IFA 016 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Information Modeling – Papyrus Guidelines

ETSI GR NFV-IFA 016 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Information Modeling – Papyrus Guidelines

ETSI GR NFV-IFA 016 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Information Modeling – Papyrus Guidelines

ETSI GR NFV-IFA 017 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Information Modeling – UML Modeling Guidelines

ETSI GR NFV-IFA 017 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Information Modeling – UML Modeling Guidelines

ETSI GR NFV-IFA 022 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Report on Management and Connectivity for Multi-Site Services

ETSI GR NFV-SEC 005 V 1.1.1:2019
Network Functions Virtualisation (NFV) – Trust – Report on Certificate Management

ETSI GR NFV-SEC 011 V 1.1.1:2018
Network Functions Virtualisation (NFV) – Security – Report on NFV LI Architecture

ETSI GR NFV-TST 007 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Testing – Guidelines on Interoperability Testing for MANO

ETSI GS NFV-EVE 011 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Virtualised Network Function – Specification of the Classification of Cloud Native VNF implementations

ETSI GS NFV-IFA 002 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Acceleration Technologies – VNF Interfaces Specification

ETSI GS NFV-IFA 003 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Acceleration Technologies – vSwitch Benchmarking and Acceleration Specification

ETSI GS NFV-IFA 004 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Acceleration Technologies – Management Aspects Specification

ETSI GS NFV-IFA 005 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Or-Vi reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 005 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Or-Vi reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 005 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Or-Vi reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 006 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Vi-Vnfm reference point – Interface and Information Model Specification

ETSI GS NFV-IFA 006 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Vi-Vnfm reference point – Interface and Information Model Specification

35.110 Umrežavanje

Evropska normizacija ETSI

EN 305174-5-1 V 1.3.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Broadband Deployment and Lifecycle Resource Management – Part 5: Customer network infrastructures – Sub-part 1: Homes (single-tenant)

EN 305200-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Energy management – Operational infrastructures – Global KPIs – Part 1: General requirements

EN 305200-2-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 1: ICT Sites

EN 305200-2-2 V 1.2.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 2: Fixed broadband access networks

EN 305200-2-3 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Energy management – Operational infrastructures – Global KPIs – Part 2: Specific requirements – Sub-part 3: Mobile broadband access networks

EN 305200-3-1 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM) – Energy management – Operational infrastructures – Global KPIs – Part 3: ICT Sites – Sub-part 1: DCEM

EN 305200-4-4 V 1.1.1:2018
Integrated broadband cable telecommunication networks (CABLE) – Energy management – Operational infrastructures – Global KPIs – Part 4: Design assessments – Sub-part 4: Cable Access Networks

ETSI TR 103473 V 1.1.2:2018
Evolution of management towards Autonomic Future Internet (AFI) – Autonomicity and Self-Management in the Broadband Forum (BBF) Architectures

ETSI TR 103617 V 1.1.1:2018
Quantum-Safe Virtual Private Networks

ETSI GR MEC 017 V 1.1.1:2018
Mobile Edge Computing (MEC) – Deployment of Mobile Edge Computing in an NFV environment

ETSI GR NFV-IFA 012 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Management and Orchestration – Report on Os-Ma-Nfvo reference point – application and service management use cases and recommendations

ETSI GR NFV-IFA 015 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Management and Orchestration – Report on NFV Information Model

- ETSI GS NFV-IFA 006 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – Vi-Vnfm reference point
– Interface and Information Model Specification
- ETSI GS NFV-IFA 007 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Or-Vnfm reference point
– Interface and Information Model Specification
- ETSI GS NFV-IFA 007 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Or-Vnfm reference point
– Interface and Information Model Specification
- ETSI GS NFV-IFA 007 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – Or-Vnfm reference point
– Interface and Information Model Specification
- ETSI GS NFV-IFA 008 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Ve-Vnfm reference point
– Interface and Information Model Specification
- ETSI GS NFV-IFA 008 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Ve-Vnfm reference point
– Interface and Information Model Specification
- ETSI GS NFV-IFA 008 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – Ve-Vnfm reference point
– Interface and Information Model Specification
- ETSI GS NFV-IFA 010 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Functional requirements
specification
- ETSI GS NFV-IFA 010 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Functional requirements
specification
- ETSI GS NFV-IFA 010 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – Functional requirements
specification
- ETSI GS NFV-IFA 011 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – VNF Descriptor and
Packaging Specification
- ETSI GS NFV-IFA 011 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – VNF Descriptor and
Packaging Specification
- ETSI GS NFV-IFA 011 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – VNF Descriptor and
Packaging Specification
- ETSI GS NFV-IFA 013 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Os-Ma-Nfvo reference
point – Interface and Information Model Specification
- ETSI GS NFV-IFA 013 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Os-Ma-Nfvo reference
point – Interface and Information Model Specification
- ETSI GS NFV-IFA 013 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – Os-Ma-Nfvo reference
point – Interface and Information Model Specification
- ETSI GS NFV-IFA 014 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Network Service
Templates Specification
- ETSI GS NFV-IFA 014 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Network Service
Templates Specification
- ETSI GS NFV-IFA 014 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – Network Service
Templates Specification
- ETSI GS NFV-IFA 027 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2
– Management and Orchestration – Performance
Measurements Specification
- ETSI GS NFV-IFA 030 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – Multiple Administrative
Domain Aspect Interfaces Specification
- ETSI GS NFV-IFA 031 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3
– Management and Orchestration – Requirements and
interfaces specification for management of NFV-MANO
- ETSI GS NFV-REL 006 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Reliability
– Maintaining Service Availability and Continuity Upon
Software Modification
- ETSI GS NFV-SEC 014 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – NFV
Security – Security Specification for MANO Components and
Reference points
- ETSI GS NFV-SOL 001 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – NFV descriptors based on TOSCA
specification
- ETSI GS NFV-SOL 002 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – RESTful protocols specification for the
Ve-Vnfm Reference Point
- ETSI GS NFV-SOL 002 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – RESTful protocols specification for the
Ve-Vnfm Reference Point
- ETSI GS NFV-SOL 003 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – RESTful protocols specification for the
Or-Vnfm Reference Point
- ETSI GS NFV-SOL 003 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – RESTful protocols specification for the
Or-Vnfm Reference Point
- ETSI GS NFV-SOL 004 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – VNF Package specification
- ETSI GS NFV-SOL 004 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – VNF Package specification
- ETSI GS NFV-SOL 005 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – RESTful protocols specification for the
Os-Ma-nfvo Reference Point
- ETSI GS NFV-SOL 005 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – RESTful protocols specification for the
Os-Ma-nfvo Reference Point
- ETSI GS NFV-SOL 007 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Protocols
and Data Models – Network Service Descriptor File Structure
Specification
- ETSI GS NFV-TST 008 V 2.4.1:2018
Network Functions Virtualisation (NFV) Release 2 – Testing
– NFVI Compute and Network Metrics Specification
- ETSI GS NFV-TST 008 V 2.5.1:2018
Network Functions Virtualisation (NFV) Release 2 – Testing
– NFVI Compute and Network Metrics Specification
- ETSI GS NFV-TST 008 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Testing
– NFVI Compute and Network Metrics Specification

ETSI GS NFV-TST 009 V 3.1.1:2018
Network Functions Virtualisation (NFV) Release 3 – Testing
– Specification of Networking Benchmarks and Measurement
Methods for NFVI

ETSI GS NFV 003 V 1.4.1:2018
Network Functions Virtualisation (NFV) – Terminology for
Main Concepts in NFV

ETSI GS NGP 001 V 1.3.1:2019
Next Generation Protocols (NGP) – Scenario Definitions

35.140 Računalna grafika

Međunarodna normizacija ISO/IEC

ISO/IEC 18520:2019
Information technology – Computer graphics, image processing
and environmental data representation – Benchmarking of
vision-based spatial registration and tracking methods for
mixed and augmented reality (MAR)

35.160 Mikroprocesorski sustavi

Europska normizacija ETSI

EN 305174-8 V 1.1.1:2018
Access, Terminals, Transmission and Multiplexing (ATM)
– Broadband Deployment and Lifecycle Resource
Management – Part 8: Management of end of life of ICT
equipment (ICT waste/end of life)

35.210 Računarstvo u oblaku

Europska normizacija ETSI

ETSI GR MEC 022 V 2.1.1:2018
Multi-access Edge Computing (MEC) – Study on MEC
Support for V2X Use Cases

Međunarodna normizacija ISO/IEC

ISO/IEC 19086-4:2019
Cloud computing – Service level agreement (SLA) framework
– Part 4: Components of security and of protection of PII

ISO/IEC 20933:2019
Information technology – Distributed application platforms
and services (DAPS) – Framework for distributed real-time
access systems

ISO/IEC TR 22678:2019
Information technology – Cloud computing – Guidance for
policy development

35.240.01 Primjene informacijske tehnologije općenito

Europska normizacija ETSI

ETSI GS CIM 004 V 1.1.1:2018
Context Information Management (CIM) – Application
Programming Interface (API)

ETSI GS CIM 009 V 1.1.1:2018
Context Information Management (CIM) – NGSI-LD API

35.240.15 Identifikacijske kartice i pripadajuće naprave

Europska normizacija ETSI

EN 319522-1 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic
Registered Delivery Services – Part 1: Framework and
Architecture

EN 319522-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic
Registered Delivery Services – Part 2: Semantic contents

EN 319522-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic
Registered Delivery Services – Part 3: Formats

EN 319522-4-1 V 1.2.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic
Registered Delivery Services – Part 4: Bindings – Sub-part 1:
Message delivery bindings

EN 319522-4-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic
Registered Delivery Services – Part 4: Bindings – Sub-part 2:
Evidence and identification bindings

EN 319522-4-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic
Registered Delivery Services – Part 4: Bindings – Sub-part 3:
Capability/requirements bindings

EN 319532-1 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered
Electronic Mail (REM) Services – Part 1: Framework and
architecture

EN 319532-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered
Electronic Mail (REM) Services – Part 2: Semantic contents

EN 319532-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered
Electronic Mail (REM) Services – Part 3: Formats

EN 319532-4 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered
Electronic Mail (REM) Services – Part 4: Interoperability
profiles

ETSI TS 102127 V 7.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 7)

ETSI TS 102127 V 8.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 8)

ETSI TS 102127 V 9.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 9)

ETSI TS 102127 V 10.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 10)

ETSI TS 102127 V 11.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 11)

ETSI TS 102127 V 12.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 12)

ETSI TS 102127 V 13.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 13)

ETSI TS 102127 V 14.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 14)

ETSI TS 102127 V 15.0.0:2018
Smart Cards – Transport protocol for CAT applications – Stage 2
(Release 15)

- ETSI TS 102221 V 14.1.0:2018
Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 14)
- ETSI TS 102221 V 15.1.0:2018
Smart Cards – UICC-Terminal interface – Physical and logical characteristics (Release 15)
- ETSI TS 102222 V 8.0.0:2018
Integrated Circuit Cards (ICC) – Administrative commands for telecommunications applications (Release 8)
- ETSI TS 102222 V 9.0.0:2018
Integrated Circuit Cards (ICC) – Administrative commands for telecommunications applications (Release 9)
- ETSI TS 102222 V 10.0.0:2018
Integrated Circuit Cards (ICC) – Administrative commands for telecommunications applications (Release 10)
- ETSI TS 102222 V 11.0.0:2018
Integrated Circuit Cards (ICC) – Administrative commands for telecommunications applications (Release 11)
- ETSI TS 102222 V 12.0.0:2018
Integrated Circuit Cards (ICC) – Administrative commands for telecommunications applications (Release 12)
- ETSI TS 102222 V 13.0.0:2018
Integrated Circuit Cards (ICC) – Administrative commands for telecommunications applications (Release 13)
- ETSI TS 102222 V 14.0.0:2018
Integrated Circuit Cards (ICC) – Administrative commands for telecommunications applications (Release 14)
- ETSI TS 102222 V 15.0.0:2018
Integrated Circuit Cards (ICC) – Administrative commands for telecommunications applications (Release 15)
- ETSI TS 102223 V 14.1.1:2018
Smart Cards – Card Application Toolkit (CAT) (Release 14)
- ETSI TS 102223 V 15.0.1:2018
Smart Cards – Card Application Toolkit (CAT) (Release 15)
- ETSI TS 102224 V 9.0.0:2018
Smart Cards – Security mechanisms for UICC based Applications – Functional requirements (Release 9)
- ETSI TS 102224 V 10.0.0:2018
Smart Cards – Security mechanisms for UICC based Applications – Functional requirements (Release 10)
- ETSI TS 102224 V 11.0.0:2018
Smart Cards – Security mechanisms for UICC based Applications – Functional requirements (Release 11)
- ETSI TS 102224 V 12.0.0:2018
Smart Cards – Security mechanisms for UICC based Applications – Functional requirements (Release 12)
- ETSI TS 102224 V 13.0.0:2018
Smart Cards – Security mechanisms for UICC based Applications – Functional requirements (Release 13)
- ETSI TS 102224 V 14.0.0:2018
Smart Cards – Security mechanisms for UICC based Applications – Functional requirements (Release 14)
- ETSI TS 102225 V 13.0.0:2018
Smart Cards – Secured packet structure for UICC based applications (Release 13)
- ETSI TS 102226 V 13.1.0:2018
Smart Cards – Remote APDU structure for UICC based applications (Release 13)
- ETSI TS 102241 V 13.1.1:2018
Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (Release 13)
- ETSI TS 102241 V 14.0.0:2018
Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 14)
- ETSI TS 102241 V 15.0.0:2018
Smart Cards – UICC Application Programming Interface (UICC API) for Java Card (TM) (Release 15)
- ETSI TS 102412 V 13.0.0:2018
Smart Cards – Smart Card Platform Requirements Stage 1 (Release 13)
- ETSI TS 102412 V 14.0.0:2018
Smart Cards – Smart Card Platform Requirements Stage 1 (Release 14)
- ETSI TS 102613 V 7.11.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 7)
- ETSI TS 102613 V 8.4.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 8)
- ETSI TS 102613 V 9.4.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 9)
- ETSI TS 102613 V 10.1.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 10)
- ETSI TS 102613 V 11.1.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 11)
- ETSI TS 102613 V 12.0.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 12)
- ETSI TS 102613 V 13.0.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 13)
- ETSI TS 102613 V 14.0.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 14)
- ETSI TS 102613 V 15.0.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Physical and data link layer characteristics (Release 15)
- ETSI TS 102622 V 11.4.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Host Controller Interface (HCI) (Release 11)
- ETSI TS 102622 V 12.2.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Host Controller Interface (HCI) (Release 12)
- ETSI TS 102622 V 13.1.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Host Controller Interface (HCI) (Release 13)
- ETSI TS 102622 V 14.0.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Host Controller Interface (HCI) (Release 14)
- ETSI TS 102622 V 15.0.0:2018
Smart Cards – UICC – Contactless Front-end (CLF) Interface – Host Controller Interface (HCI) (Release 15)
- ETSI TS 102671 V 10.0.0:2018
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- ETSI TS 102671 V 11.0.0:2018
Smart Cards – Machine to Machine UICC – Physical and logical characteristics (Release 11)
- ETSI TS 102671 V 12.0.1:2018
Smart Cards – Machine to Machine UICC – Physical and logical characteristics (Release 12)
- ETSI TS 103383 V 13.3.0:2018
Smart Cards – Embedded UICC – Requirements Specification (Release 13)
- ETSI TS 103383 V 14.0.0:2018
Smart Cards – Embedded UICC – Requirements Specification (Release 14)
- ETSI TS 103500 V 14.0.0:2018
Smart Cards – Embedded UICC – Profile Package (Release 14)
- ETSI GR QKD 003 V 2.1.1:2018
Quantum Key Distribution (QKD) – Components and Internal Interfaces

35.240.30 Primjene informacijske tehnologije u obavješćivanju, dokumentaciji i izdavaštvu

Europska normizacija ETSI

- EN 319401 V 2.2.1:2018
Electronic Signatures and Infrastructures (ESI) – General Policy Requirements for Trust Service Providers
- EN 319411-1 V 1.2.2:2018
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 1: General requirements
- EN 319411-2 V 2.2.2:2018
Electronic Signatures and Infrastructures (ESI) – Policy and security requirements for Trust Service Providers issuing certificates – Part 2: Requirements for trust service providers issuing EU qualified certificates
- EN 319522-1 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 1: Framework and Architecture
- EN 319522-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 2: Semantic contents
- EN 319522-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 3: Formats
- EN 319522-4-1 V 1.2.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 1: Message delivery bindings
- EN 319522-4-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 2: Evidence and identification bindings
- EN 319522-4-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 3: Capability/requirements bindings
- EN 319532-1 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 1: Framework and architecture
- EN 319532-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 2: Semantic contents
- EN 319532-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 3: Formats
- EN 319532-4 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Registered Electronic Mail (REM) Services – Part 4: Interoperability profiles

35.240.50 Primjene informacijske tehnologije u industriji

Europska normizacija CENELEC

- EN 61970-453:2014/A1:2019
Energy management system application program interface (EMS-API) – Part 453: Diagram layout profile (IEC 61970-453:2014/A1:2018)

ETSI

- ETSI GR IP6 017 V 1.1.1:2019
6TiSCH Interoperability Test Specifications

Međunarodna normizacija IEC

- IEC/TR 61850-7-6:2018
Communication networks and systems for power utility automation – Part 7-6: Guideline for definition of Basic Application Profiles (BAPs) using IEC 61850

35.240.60 Primjene informacijske tehnologije u prijevozu i trgovini

Europska normizacija CEN

- CEN/TR 17311:2019
Public transport – Interoperable fare management system – Bluetooth low energy ticketing – use cases and guidelines

ETSI

- EN 319522-1 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 1: Framework and Architecture
- EN 319522-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 2: Semantic contents
- EN 319522-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 3: Formats
- EN 319522-4-1 V 1.2.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 1: Message delivery bindings
- EN 319522-4-2 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 2: Evidence and identification bindings
- EN 319522-4-3 V 1.1.1:2018
Electronic Signatures and Infrastructures (ESI) – Electronic Registered Delivery Services – Part 4: Bindings – Sub-part 3: Capability/requirements bindings
- ETSI TS 101539-2 V 1.1.1:2018
Intelligent Transport Systems (ITS) – V2X Applications – Part 2: Intersection Collision Risk Warning (ICRW) application requirements specification
- ETSI TS 102636-7-1 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Vehicular Communications – GeoNetworking – Part 7: Amendments for LTE-V2X – Sub-part 1: Amendments to ETSI EN 302 636-4-1 (Media-Independent Functionality)
- ETSI TS 102636-7-2 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Vehicular Communications – GeoNetworking – Part 7: Amendments for LTE-V2X – Sub-part 2: Amendments to ETSI EN 302 636-5-1 (Basic Transport Protocol)
- ETSI TS 102687 V 1.2.1:2018
Intelligent Transport Systems (ITS) – Decentralized Congestion Control Mechanisms for Intelligent Transport Systems operating in the 5 GHz range – Access layer part
- ETSI TS 102708-2-2 V 1.5.1:2018
Intelligent Transport Systems (ITS) – RTTT – Test specifications for High Data Rate (HDR) data transmission equipment operating in the 5,8 GHz ISM band – Part 2: Application Layer – Sub-Part 2: Test Suite Structure and Test Purposes (TSS & TP)
- ETSI TS 102708-2-3 V 1.5.1:2018
Intelligent Transport Systems (ITS) – RTTT – Test specifications for High Data Rate (HDR) data transmission equipment operating in the 5,8 GHz ISM band – Part 2: Application Layer – Sub-part 3: Abstract Test Suite (ATS) and partial PIXIT pro forma

ETSI TS 102894-2 V 1.3.1:2018
Intelligent Transport Systems (ITS) – Users and applications requirements – Part 2: Applications and facilities layer common data dictionary

ETSI TS 102940 V 1.3.1:2018
Intelligent Transport Systems (ITS) – Security – ITS communications security architecture and security management

ETSI TS 102941 V 1.2.1:2018
Intelligent Transport Systems (ITS) – Security – Trust and Privacy Management

ETSI TS 102965 V 1.4.1:2018
Intelligent Transport Systems (ITS) – Application Object Identifier (ITS-AID) – Registration

ETSI TS 103096-1 V 1.4.1:2018
Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for ITS Security – Part 1: Protocol Implementation Conformance Statement (PICS)

ETSI TS 103096-2 V 1.4.1:2018
Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for ITS Security – Part 2: Test Suite Structure and Test Purposes (TSS & TP)

ETSI TS 103096-3 V 1.4.1:2018
Intelligent Transport Systems (ITS) – Testing – Conformance test specifications for ITS Security – Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

ETSI TS 103192-1 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for ITS V2X use cases – Part 1: Test requirements and Interoperability Feature Statement (IFS) pro forma

ETSI TS 103192-2 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for ITS V2X use cases – Part 2: Test Suite Structure and Test Purposes (TSS & TP)

ETSI TS 103192-3 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for ITS V2X use cases – Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)

ETSI TR 103193 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Testing – Interoperability test specifications for ITS V2X use cases – Architecture of ITS Interoperability Validation Framework

ETSI TS 103248 V 1.2.1:2018
Intelligent Transport Systems (ITS) – GeoNetworking – Port Numbers for the Basic Transport Protocol (BTP)

ETSI TS 103301 V 1.2.1:2018
Intelligent Transport Systems (ITS) – Vehicular Communications – Basic Set of Applications – Facilities layer protocols and communication requirements for infrastructure services

ETSI TR 103415 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Security – Pre-standardization study on pseudonym change management

ETSI TS 103574 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Congestion Control Mechanisms for C-V2X PC5 interface – Access layer part

ETSI TS 103613 V 1.1.1:2018
Intelligent Transport Systems (ITS) – Access layer specification for Intelligent Transport Systems using LTE Vehicle to everything communication in the 5,9 GHz frequency band

Međunarodna normizacija ISO

ISO 14827-3:2019
Transport information and control systems – Data interfaces between centres for transport information and control systems – Part 3: Data interfaces between centres for intelligent transport systems (ITS) using XML (Profile A)

ISO 20035:2019
Intelligent transport systems – Cooperative adaptive cruise control systems (CACC) – Performance requirements and test procedures

ISO/TR 21718:2019
Intelligent transport systems – Spatio-temporal data dictionary for cooperative ITS and automated driving systems 2.0

ISO 29281-2:2019
Intelligent transport systems – Localized communications – Part 2: Legacy system support

35.240.70 Primjene informacijske tehnologije u znanosti

Europska normizacija CEN

EN ISO 19115-2:2019
Geographic information – Metadata – Part 2: Extensions for acquisition and processing (ISO 19115-2:2019)

Međunarodna normizacija ISO

ISO 19111:2019
Geographic information – Referencing by coordinates

ISO 19115-2:2019
Geographic information – Metadata – Part 2: Extensions for acquisition and processing

ISO 19150-2 AMD 1:2019
Geographic information – Ontology – Part 2: Rules for developing ontologies in the Web Ontology Language (OWL); Amendment 1

35.240.95 Internetske primjene

Europska normizacija ETSI

ETSI GR IP6 017 V 1.1.1:2019
6TiSCH Interoperability Test Specifications

35.240.99 Primjene IT-a u ostalim područjima

Međunarodna normizacija ISO

ISO 11783-12:2019
Tractors and machinery for agriculture and forestry – Serial control and communications data network – Part 12: Diagnostics services

IEC

IEC 62386-220:2019
Digital addressable lighting interface – Part 220: Particular requirements for control gear – Centrally supplied emergency operation (device type 19)

35.260 Uredski strojevi

Europska normizacija ETSI

EN 303423 V 1.2.1:2018
Environmental Engineering (EE) – Electrical and electronic household and office equipment – Measurement of networked standby power consumption of Interconnecting equipment – Harmonised Standard covering the measurement method for EC Regulation 1275/2008 amended by EU Regulation 801/2013

37.040.10 Fotografska oprema. Projektori

Međunarodna normizacija ISO

- ISO 12232:2019
Photography – Digital still cameras – Determination of exposure index, ISO speed ratings, standard output sensitivity, and recommended exposure index

37.080 Primjene u preslikavanju dokumenata

Međunarodna normizacija ISO

- ISO 8126:2019
Micrographics – Duplicating film, silver, diazo and vesicular – Specifications and measurement for visual density

43.040.10 Električna i elektronička oprema

Međunarodna normizacija ISO

- ISO 11452-2:2019
Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Absorber-lined shielded enclosure
- ISO 19642-2:2019
Road vehicles – Automotive cables – Part 2: Test methods
- ISO 19642-3:2019
Road vehicles – Automotive cables – Part 3: Dimensions and requirements for 30 V a.c. or 60 V d.c. single core copper conductor cables
- ISO 19642-4:2019
Road vehicles – Automotive cables – Part 4: Dimensions and requirements for 30 V a.c. and 60 V d.c. single core aluminium conductor cables
- ISO 19642-5:2019
Road vehicles – Automotive cables – Part 5: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1000 V a.c. or 1500 V d.c. single core copper conductor cables
- ISO 19642-6:2019
Road vehicles – Automotive cables – Part 6: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1000 V a.c. or 1500 V d.c. single core aluminium conductor cables
- ISO 19642-7:2019
Road vehicles – Automotive cables – Part 7: Dimensions and requirements for 30 V a.c. or 60 V d.c. round, sheathed, screened or unscreened multi or single core copper conductor cables
- ISO 19642-8:2019
Road vehicles – Automotive cables – Part 8: Dimensions and requirements for 30 V a.c. or 60 V d.c. round, sheathed, screened or unscreened multi or single core aluminium conductor cables
- ISO 19642-9:2019
Road vehicles – Automotive cables – Part 9: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1000 V a.c. or 1500 V d.c. round, sheathed, screened or unscreened multi or single core copper conductor cables
- ISO 19642-10:2019
Road vehicles – Automotive cables – Part 10: Dimensions and requirements for 600 V a.c. or 900 V d.c. and 1000 V a.c. or 1500 V d.c. round, sheathed, screened or unscreened multi or single core aluminium conductor cables
- ISO/PAS 21448:2019
Road vehicles – Safety of the intended functionality

43.040.15 Informatika vozila. Računalni sustavi u vozilu

Međunarodna normizacija ISO

- ISO 20035:2019
Intelligent transport systems – Cooperative adaptive cruise control systems (CACC) – Performance requirements and test procedures

43.100 Osobna vozila. Kamp-prikolice i lake prikolice

Međunarodna normizacija ISO

- ISO 15037-1:2019
Road vehicles – Vehicle dynamics test methods – Part 1: General conditions for passenger cars

45.060.01 Željeznička tračnička vozila općenito

Međunarodna normizacija IEC

- IEC 62888-6:2019
Railway applications – Energy measurement on board trains – Part 6: Requirements for purposes other than billing

45.120 Oprema za gradnju i održavanje željeznica i žičara

Europska normizacija CEN

- EN 14033-4:2019
Railway applications – Track – Railbound construction and maintenance machines – Part 4: Technical requirements for running, travelling and working on urban rail

47.020.70 Oprema za navigaciju i upravljanje

Europska normizacija CENELEC

- EN IEC 63135:2019
Maritime navigation and radiocommunication equipment and systems – Automatic identification systems (AIS) – SAR Airborne equipment – Operational and performance requirements, methods of test and required test results (IEC 63135:2018)
- EN 300698 V 2.3.1:2018
Radio telephone transmitters and receivers for the maritime mobile service operating in the VHF bands used on inland waterways – Harmonised Standard for access to radio spectrum and for features for emergency services

Međunarodna normizacija ISO

- ISO 19636:2019
Ships and marine technology – General requirements for inclinometers used for the determination of trim and list of LNG carriers

49.140 Svemirski sustavi i operacije

Europska normizacija CEN

- EN 16601-00:2019
Space system – EN 16600 series – Description, implementation and general requirements

**Međunarodna normizacija
ISO**

ISO 27875:2019
Space systems – Re-entry risk management for unmanned spacecraft and launch vehicle orbital stages

55.060 Špule. Svitci

**Međunarodna normizacija
IEC**

IEC 60286-3:2019
Packaging of components for automatic handling – Part 3: Packaging of surface mount components on continuous tapes

55.100 Boce. Vrčevi. Lonci

**Europska normizacija
CEN**

EN 17177:2019
Glass packaging – Crown cap – 26 mm diameter, 6 mm height crown cap

59.060.10 Prirodna vlakna

**Međunarodna normizacija
ISO**

ISO 2370:2019
Textiles – Determination of fineness of flax fibres – Permeametric methods

ISO 20921:2019
Textiles – Determination of stable nitrogen isotope ratio in cotton fibres

59.080.01 Tekstili općenito

**Europska normizacija
CEN**

EN ISO 18254-2:2019
Textiles – Method for the detection and determination of alkylphenol ethoxylates (APEO) – Part 2: Method using NPLC (ISO 18254-2:2018)

59.080.50 Užad

**Međunarodna normizacija
ISO**

ISO 18692-2:2019
Fibre ropes for offshore stationkeeping – Part 2: Polyester

59.140.30 Koža i krzno

**Europska normizacija
CEN**

EN ISO 5398-4:2019
Leather – Chemical determination of chromic oxide content – Part 4: Quantification by inductively coupled plasma (ICP) (ISO 5398-4:2018)

EN ISO 17226-1:2019
Leather – Chemical determination of formaldehyde content – Part 1: Method using high performance liquid chromatography (ISO 17226-1:2018)

EN ISO 17226-2:2019
Leather – Chemical determination of formaldehyde content – Part 2: Method using colorimetric analysis (ISO 17226-2:2018)

61.060 Obuća

**Međunarodna normizacija
ISO**

ISO 20150:2019
Footwear and footwear components – Quantitative challenge test method to assess antifungal activity

65.060.01 Poljoprivredni strojevi i oprema općenito

**Međunarodna normizacija
ISO**

ISO 11783-12:2019
Tractors and machinery for agriculture and forestry – Serial control and communications data network – Part 12: Diagnostics services

65.120 Hrana za životinje

**Europska normizacija
CEN**

CWA 17369:2019
Authenticity and fraud in the feed and food chain – Concepts, terms, and definitions

67.020 Procesi u prehrambenoj industriji

**Europska normizacija
CEN**

CWA 17369:2019
Authenticity and fraud in the feed and food chain – Concepts, terms, and definitions

67.050 Opće metode ispitivanja i analize hrane

**Međunarodna normizacija
ISO**

ISO 21446:2019
Infant formula and adult nutritionals – Determination of trans and total (cis + trans) vitamin K1 content – Normal phase HPLC

67.060 Žitarice, mahunarke i proizvodi od žitarica i mahunarka

**Međunarodna normizacija
ISO**

ISO 7971-2:2019
Cereals – Determination of bulk density, called mass per hectolitre – Part 2: Method of traceability for measuring instruments through reference to the international standard instrument

ISO 7971-3:2019
Cereals – Determination of bulk density, called mass per hectolitre – Part 3: Routine method

71.040.40 Kemijska analiza

**Međunarodna normizacija
ISO**

ISO 18516:2019
Surface chemical analysis – Determination of lateral resolution and sharpness in beam based methods with a range from nanometres to micrometres

71.100.40 Površinski aktivne tvari

Međunarodna normizacija ISO

ISO 21703:2019
Surface active agents – Microbiology – Microbiological test methods for liquid hand dishwashing

75.180.20 Procesna oprema

Međunarodna normizacija ISO

ISO 16812:2019
Petroleum, petrochemical and natural gas industries – Shell-and-tube heat exchangers

77.140.10 Toplinski obradivi čelici

Međunarodna normizacija ISO

ISO 683-3:2019
Heat-treatable steels, alloy steels and free-cutting steels – Part 3: Case-hardening steels

77.140.20 Nehrdajući čelici

Međunarodna normizacija ISO

ISO 683-3:2019
Heat-treatable steels, alloy steels and free-cutting steels – Part 3: Case-hardening steels

77.140.50 Proizvodi i poluproizvodi od plosnatog čelika

Međunarodna normizacija ISO

ISO 5952:2019
Steel sheet, hot-rolled, of structural quality with improved atmospheric corrosion resistance

77.140.65 Čelična žica, čelična užad i lanci

Međunarodna normizacija ISO

ISO 19427:2019
Steel wire ropes – Pre-fabricated parallel wire strands for suspension bridge main cable – Specifications

79.040 Drvo, trupci i piljena građa

Međunarodna normizacija ISO

ISO 22157:2019
Bamboo structures – Determination of physical and mechanical properties of bamboo culms – Test methods

79.100 Pluto i proizvodi od pluta

Međunarodna normizacija ISO

ISO 633:2019
Cork – Vocabulary

81.060.30 Tehnička keramika

Međunarodna normizacija ISO

ISO 21814:2019
Fine ceramics (advanced ceramics, advanced technical ceramics) – Methods for chemical analysis of aluminium nitride powders

83.080.20 Plastomerni materijali

Europska normizacija CEN

EN ISO 294-4:2019
Plastics – Injection moulding of test specimens of thermoplastic materials – Part 4: Determination of moulding shrinkage (ISO 294-4:2018)

83.140.40 Crijeva

Međunarodna normizacija ISO

ISO 16964:2019
Gas cylinders – Flexible hoses assemblies – Specification and testing

85.040 Celuloza

Međunarodna normizacija ISO

ISO/TR 24498:2019
Paper, board and pulps – Estimation of uncertainty for test methods by interlaboratory comparisons

85.060 Papir i karton

Međunarodna normizacija ISO

ISO/TR 24498:2019
Paper, board and pulps – Estimation of uncertainty for test methods by interlaboratory comparisons

85.080.30 Karton

Europska normizacija CEN

EN ISO 7263-1:2019
Corrugating medium – Determination of the flat crush resistance after laboratory fluting – Part 1: A-flute (ISO 7263-1:2018)

87.080 Tinte. Tiskarske tinte

Međunarodna normizacija IEC

IEC 62899-202-3:2019
Printed electronics – Part 202-3: Materials – Conductive ink – Measurement of sheet resistance of conductive films – Contactless method

91.060.50 Vrata i prozori

Međunarodna normizacija ISO

ISO 3008-1:2019
Fire resistance tests – Door and shutter assemblies – Part 1: General requirements

91.080.40 Betonske konstrukcije

Međunarodna normizacija ISO

- ISO 13315-8:2019
Environmental management for concrete and concrete structures – Part 8: Environmental labels and declarations
- ISO 16836:2019
Non-destructive testing – Acoustic emission testing – Measurement method for acoustic emission signals in concrete
- ISO 16837:2019
Non-destructive testing – Acoustic emission testing – Test method for damage qualification of reinforced concrete beams
- ISO 16838:2019
Non-destructive testing – Acoustic emission testing – Test method for classification of active cracks in concrete structures

91.100.10 Cement. Gips. Vapno. Mort

Europska normizacija CEN

- EN 13454-2:2019
Binders for floor screeds based on calcium sulphate – Part 2: Test methods

91.100.15 Mineralni materijali i proizvodi

Europska normizacija CEN

- EN 16140:2019
Natural stone test methods – Determination of sensitivity to changes in appearance produced by thermal cycles

91.100.30 Beton i betonski proizvodi

Europska normizacija CEN

- CEN/TR 17310:2019
Carbonation and CO₂ uptake in concrete

Međunarodna normizacija ISO

- ISO 13315-8:2019
Environmental management for concrete and concrete structures – Part 8: Environmental labels and declarations

91.100.50 Veziva. Materijali za brtvljenje

Europska normizacija CEN

- EN 13454-2:2019
Binders for floor screeds based on calcium sulphate – Part 2: Test methods

91.140.30 Sustavi prozračivanja i klimatizacije

Europska normizacija CEN

- EN 13141-1:2019
Ventilation for buildings – Performance testing of components/products for residential ventilation – Part 1: Externally and internally mounted air transfer devices

91.140.80 Odvodni sustavi

Međunarodna normizacija ISO

- ISO 11296-7:2019
Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes

91.140.90 Dizala. Pokretne stube

Europska normizacija CEN

- EN 81-28+AC:2019
Safety rules for the construction and installation of lifts – Lifts for the transport of persons and goods – Part 28: Remote alarm on passenger and goods passenger lifts
- EN 81-71+AC:2019
Safety rules for the construction and installation of lifts – Particular applications to passenger lifts and goods passenger lifts – Part 71: Vandal resistant lifts

Međunarodna normizacija ISO

- ISO 8102-6:2019
Electrical requirements for lifts, escalators and moving walks – Part 6: Programmable electronic systems in safety-related applications for escalators and moving walks (PESSRAE)

91.160.10 Unutrašnja rasvjeta

Međunarodna normizacija ISO

- ISO/CIE 20086:2019
Light and lighting – Energy performance of lighting in buildings

93.020 Zemljani radovi. Iskopavanja. Temeljenje. Podzemni radovi

Međunarodna normizacija ISO

- ISO 17892-11:2019
Geotechnical investigation and testing – Laboratory testing of soil – Part 11: Permeability tests

93.030 Vanjski kanalizacijski sustavi

Međunarodna normizacija ISO

- ISO 11296-7:2019
Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks – Part 7: Lining with spirally-wound pipes

93.040 Mostogradnja

Međunarodna normizacija ISO

- ISO 19427:2019
Steel wire ropes – Pre-fabricated parallel wire strands for suspension bridge main cable – Specifications

93.100 Gradnja železniških pruga

Europska normizacija CEN

- EN 13146-1:2019
Railway applications – Track – Test methods for fastening systems – Part 1: Determination of longitudinal rail restraint
- EN 13146-7:2019
Railway applications – Track – Test methods for fastening systems – Part 7: Determination of clamping force and uplift stiffness
- EN 14033-4:2019
Railway applications – Track – Railbound construction and maintenance machines – Part 4: Technical requirements for running, travelling and working on urban rail
- CEN/TR 17320:2019
Railway applications – Infrastructure – Determination of laboratory test parameters for assessing the mechanical durability of rail fastening systems – Complementary element

95.020 Vojna tehnika. Vojni poslovi. Oružje

Međunarodna normizacija ISO

- ISO 17201-3:2019
Acoustics – Noise from shooting ranges – Part 3: Sound propagation calculations

97.030 Kućanski električni uređaji općenito

Europska normizacija ETSI

- EN 303423 V 1.2.1:2018
Environmental Engineering (EE) – Electrical and electronic household and office equipment – Measurement of networked standby power consumption of Interconnecting equipment – Harmonised Standard covering the measurement method for EC Regulation 1275/2008 amended by EU Regulation 801/2013

97.040.10 Kućanski namještaj

Međunarodna normizacija IEC

- IEC 60335-2-78 AMD 2:2019
Household and similar electrical appliances – Safety – Part 2-78: Particular requirements for outdoor barbecues; Amendment 2
- IEC 60335-2-78 Edition 2.2:2019
Household and similar electrical appliances – Safety – Part 2-78: Particular requirements for outdoor barbecues

97.040.30 Kućanski rashladni uređaji

Europska normizacija CENELEC

- EN 60335-2-24:2010/A2:2019
Household and similar electrical appliances – Safety – Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers (IEC 60335-2-24:2010/A2:2017)

97.080 Uređaji za čišćenje podova

Međunarodna normizacija IEC

- IEC 62784 AMD 1:2019
Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts – Particular requirements; Amendment 1
- IEC 62784 Edition 1.1:2019
Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts – Particular requirements

97.140 Namještaj

Međunarodna normizacija ISO

- ISO 7175-1:2019
Furniture – Children's cots and folding cots for domestic use – Part 1: Safety requirements
- ISO 7175-2:2019
Furniture – Children's cots and folding cots for domestic use – Part 2: Test methods

97.180 Razna kućanska i gospodarska oprema

Europska normizacija CEN

- EN ISO 9994:2019
Lighters – Safety specification (ISO 9994:2018)

97.220.10 Sportski objekti

Međunarodna normizacija ISO

- ISO 17201-3:2019
Acoustics – Noise from shooting ranges – Part 3: Sound propagation calculations

97.220.20 Oprema za zimske sportove

Europska normizacija ETSI

- EN 300718-1 V 2.1.1:2018
Avalanche Beacons operating at 457 kHz – Transmitter-receiver systems – Part 1: Harmonised Standard for access to radio spectrum

97.220.99 Ostala sportska oprema i objekti

Međunarodna normizacija ISO

- ISO 20740:2019
Martial arts – Wushu Taiji sword – Requirements and test method