

JHS 197 EUREF-FIN -koordinaattijärjestelmät, niihin liittyvät muunnokset ja karttalehtijako

Liite 4: Koordinaattijärjestelmien kuvaukset ISO 19111:2007 mukaisesti

Versio: 1.0 / 3.2.2016

Julkaistu: 5.4.2016

Voimassaoloaika: toistaiseksi

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Tässä liitteessä annetaan aluksi EUREF-FIN geodeettisen datumin kuvaus, koska datumi on käytössä kaikissa tämän liitteen mukaisissa koordinaattijärjestelmissä Suomen alueella. Itse koordinaattijärjestelmien kuvauksissa datumista ei anneta kuitenkaan toiston välttämiseksi kuin nimi.

ETRS-TMn, ETRS-LAEA ja ETRS-LCC-koordinaattijärjestelmien osalta kuvauksen geodeettiseksi datumiksi on laitettu ETRS89, mikä tarkoittaa että Suomen alueella käytetään EUREF-FIN geodeettista datumia. Huomioitavaa kuvauksissa on myös, että jälkimmäisten koordinaattijärjestelmien koordinaatistojen akselistot ovat käänteisessä järjestyksessä alussa määriteltyjen kanssa.

1 EUREF-FIN-geodeettinen datumi

| UML identifier | Entry | XML encoding |
|--------------------------|---|---|
| CD_GeodeticDatum | | |
| name: | EUREF-FIN | |
| remarks: | EUREF-FIN was realized with a GPS campaign made in 1996-97. The data were processed in ITRF96 reference frame in central epoch of observations (1997.0) and transformed to the ETRS89 according to the recommendation by the EUREF commission (Boucher & Altamimi, 1995) resulting in ETRF96 coordinates. According to the definition of the ETRS89, the transformation formulae reduce the coordinates back to the epoch 1989.0, but only the rigid motion of the Eurasian plate is accounted for. For instance, the effect of the postglacial rebound phenomenon occurring in the Fennoscandian area, amounting up to 1cm/yr intraplate deformations, is not reduced by the formulae. Therefore, the epoch of the realization for the land uplift is the central epoch of observations, i.e. 1997.0. The resulting national ETRS89 realization was labelled to EUREF-FIN. | |
| anchorDefinition: | See: Ollikainen, M., H. Koivula, and M. Poutanen, 2000. The densification of the EUREF network in Finland. Publication of the Finnish Geodetic Institute N:o 129. Kirkkonummi. ISBN 951-711-236-X. | |
| realizationEpoch: | 1997.0 | |
| domainOfValidity: | Finland | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Finland</gco:CharacterSt ring></gmd:code></gmd:MD_Identifier></gmd:geographicId entifier></gmd:EX_GeographicDescription></gmd:geographi cElement></gmd:EX_Extent></pre> |
| scope: | Datum of the national coordinate reference system | |
| CD_PrimeMeridian | | |
| name: | Greenwich | |
| GreenwichLongitude: | 0 | |
| uom: | degrees | |
| CD_Ellipsoid | | |
| name: | Geodetic Reference System 1980 | |
| alias: | GRS 80 | |
| semiMajorAxis: | 6378137.0 | |
| uom: | metre | |
| secondDefiningParameter: | inverseFlattening | |
| inverseFlattening: | 298.257222101 | |
| remarks: | See: Moritz, H. (2000): Geodetic Reference System 1980. <i>Journal of Geodesy</i> , 74:1. | |

2 EUREF-FIN-GRS80-koordinaattijärjestelmä

| UML identifier | Entry | XML encoding |
|-------------------------|---|---|
| CS_GeodeticCRS | EUREF-FIN-GRS80 | |
| name: | EUREF-FIN-GRS80 | |
| alias: | EUREF-FIN | |
| domainOfValidity: | Finland | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Finland</gco:CharacterSt ring></gmd:code></gmd:MD_Identifier></gmd:geographicId entifier></gmd:EX_GeographicDescription></gmd:geographi cElement></gmd:EX_Extent></pre> |
| scope: | National coordinate reference system | |
| remarks: | <p>National realization of the ETRS89 reference system.</p> <p>In pan-European use the geodetic datum of this CRS can be switched to be ETRS89, which in reality is not a geodetic datum. However, the use of ETRS89 as a geodetic datum allows seamless appearing cross-realization compatibility and usability with meagre co-ordinate value differences on realization boundaries.</p> | |
| CS_EllipsoidalCS | EUREF-FIN coordinate system | |
| name: | EUREF-FIN coordinate system | |
| CS_CoordinateSystemAxis | geodetic latitude | |
| name: | geodetic latitude | |
| axisAbbrev: | φ | |
| axisDirection: | north | |
| axisUnitID: | degree | |
| CS_CoordinateSystemAxis | geodetic longitude | |
| name: | geodetic longitude | |
| axisAbbrev: | λ | |
| axisDirection: | east | |
| axisUnitID: | degree | |
| CD_GeodeticDatum | EUREF-FIN | |
| name: | EUREF-FIN | |

3 EUREF-FIN-GRS80h-koordinaattijärjestelmä

| UML identifier | Entry | XML encoding |
|-------------------------|---|---|
| CS_GeodeticCRS | | |
| name: | EUREF-FIN-GRS80h | |
| alias: | EUREF-FIN | |
| domainOfValidity: | Finland | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Finland</gco:CharacterSt ring></gmd:code></gmd:MD_Identifier></gmd:geographicId entifier></gmd:EX_GeographicDescription></gmd:geographi cElement></gmd:EX_Extent></pre> |
| scope: | National coordinate reference system | |
| remarks: | <p>National realization of the ETRS89 reference system.</p> <p>In pan-European use the geodetic datum of this CRS can be switched to be ETRS89, which in reality is not a geodetic datum. However, the use of ETRS89 as a geodetic datum allows seamless appearing cross-realization compatibility and usability with meagre co-ordinate value differences on realization boundaries.</p> | |
| CS_EllipsoidalCS | | |
| name: | EUREF-FIN | |
| CS_CoordinateSystemAxis | | |
| name: | geodetic latitude | |
| axisAbbrev: | φ | |
| axisDirection: | north | |
| axisUnitID: | degree | |
| CS_CoordinateSystemAxis | | |
| name: | geodetic longitude | |
| axisAbbrev: | λ | |
| axisDirection: | east | |
| axisUnitID: | degree | |
| CS_CoordinateSystemAxis | | |
| name: | ellipsoidal height | |
| axisAbbrev: | h | |
| axisDirection: | up | |
| axisUnitID: | metre | |
| CD_GeodeticDatum | | |
| name: | EUREF-FIN | |

4 EUREF-FIN-XYZ-koordinaattijärjestelmä

| UML identifier | Entry | XML encoding |
|-------------------------|---|---|
| CS_GeodeticCRS | | |
| name: | EUREF-FIN-XYZ | |
| alias: | EUREF-FIN | |
| domainOfValidity: | Finland | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Finland</gco:CharacterSt ring></gmd:code></gmd:MD_Identifier></gmd:geographicId entifier></gmd:EX_GeographicDescription></gmd:geographi cElement></gmd:EX_Extent></pre> |
| scope: | National coordinate reference system | |
| remarks: | <p>National realization of the ETRS89 reference system.</p> <p>In pan-European use the geodetic datum of this CRS can be switched to be ETRS89, which in reality is not a geodetic datum. However, the use of ETRS89 as a geodetic datum allows seamless appearing cross-realization compatibility and usability with meagre co-ordinate value differences on realization boundaries.</p> | |
| CS_CartesianCS | | |
| name: | EUREF-FIN cartesian geocentric coordinate system | |
| CS_CoordinateSystemAxis | | |
| name: | geocentric X | |
| axisAbbrev: | X | |
| axisDirection: | geocentricX | |
| axisUnitID: | metre | |
| CS_CoordinateSystemAxis | | |
| name: | geocentric Y | |
| axisAbbrev: | Y | |
| axisDirection: | geocentricY | |
| axisUnitID: | metre | |
| CS_CoordinateSystemAxis | | |
| name: | geocentric Z | |
| axisAbbrev: | Z | |
| axisDirection: | geocentricZ | |
| axisUnitID: | metre | |
| CD_GeodeticDatum | | |
| name: | EUREF-FIN | |

5 ETRS-TM35FIN-tasokoordinaattijärjestelmä

| UML identifier | Entry | XML encoding |
|-------------------------|---|---|
| CS_ProjectedCRS | | |
| name: | ETRS-TM35FIN | |
| domainOfValidity: | Finland | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Finland</gco:CharacterSt ring></gmd:code></gmd:MD_Identifier></gmd:geographicId entifier></gmd:EX_GeographicDescription></gmd:geographi cElement></gmd:EX_Extent></pre> |
| scope: | Country-wide projected coordinate reference system | |
| CS_CartesianCS | | |
| name: | ETRS-TM35FIN coordinate system | |
| CS_CoordinateSystemAxis | | |
| name: | Easting | |
| axisAbbrev: | E | |
| axisDirection: | east | |
| axisUnitID: | metre | |
| CS_CoordinateSystemAxis | | |
| name: | Northing | |
| axisAbbrev: | N | |
| axisDirection: | north | |
| axisUnitID: | metre | |
| CD_GeodeticDatum | | |
| name: | EUREF-FIN | |
| CC_Conversion | | |
| name: | ETRS-TM35FIN | |
| domainOfValidity: | Finland | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Finland</gco:CharacterSt ring></gmd:code></gmd:MD_Identifier></gmd:geographicId entifier></gmd:EX_GeographicDescription></gmd:geographi cElement></gmd:EX_Extent></pre> |
| scope: | | |
| CC_OperationMethod: | | |
| name: | Transverse Mercator | |
| formula: | See: Hirvonen, R. A., 1970. The Use of Subroutines in Geodetic Computations, <i>Maanmittaus</i> | |
| sourceDimensions: | 2 | |
| targetDimensions: | 2 | |
| CC_OperationParameter | | |
| name: | Latitude of natural origin | |
| CC_ParameterValue | | |
| value: | 0° | |
| CC_OperationParameter | | |
| name: | Longitude of natural origin | |
| CC_ParameterValue | | |
| value: | 27° E | |
| CC_OperationParameter | | |
| name: | Scale factor at natural origin | |

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CC_ParameterValue
value: 0.9996

CC_OperationParameter
name: False easting

CC_ParameterValue
value: 500 000

CC_OperationParameter
name: False northing

CC_ParameterValue
value: 0

6 ETRS-GK n -tasokoordinaattijärjestelmien esimerkkinä ETRS-GK24

| UML identifier | Entry | XML encoding |
|-------------------------|--|---|
| CS_ProjectedCRS | | |
| name: | ETRS-GK24 | |
| domainOfValidity: | Nominally in Finland between 23° 30' E and 24° 30' E, but may also be used in adjacent areas if a municipality chooses to use one zone over its whole extent | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic BoundingBox><gmd:westBoundLongitude><gco:Decimal>23 .5</gco:Decimal></gmd:westBoundLongitude><gmd:eastBou ndLongitude><gco:Decimal>24.5</gco:Decimal></gmd:eastB oundLongitude><gmd:southBoundLatitude><gco:Decimal>59 .5</gco:Decimal></gmd:southBoundLatitude><gmd:northBou ndLatitude><gco:Decimal>69.0</gco:Decimal></gmd:northB oundLatitude></gmd:EX_GeographicBoundingBox></gmd:ge ographicElement></gmd:EX_Extent></pre> |
| scope: | Projected coordinate reference system | |
| CS_CartesianCS | | |
| name: | ETRS-GK24 coordinate system | |
| CS_CoordinateSystemAxis | | |
| name: | Northing | |
| axisAbbrev: | N | |
| axisDirection: | north | |
| axisUnitID: | metre | |
| CS_CoordinateSystemAxis | | |
| name: | Easting | |
| axisAbbrev: | E | |
| axisDirection: | east | |
| axisUnitID: | metre | |
| CD_GeodeticDatum | | |
| name: | EUREF-FIN | |
| CC_Conversion | | |
| name: | ETRS-GK24 | |
| domainOfValidity: | Nominally in Finland between 23° 30' E and 24° 30' E, but may also be used in adjacent areas if a municipality chooses to use one zone over its whole extent | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic BoundingBox><gmd:westBoundLongitude><gco:Decimal>23 .5</gco:Decimal></gmd:westBoundLongitude><gmd:eastBou ndLongitude><gco:Decimal>24.5</gco:Decimal></gmd:eastB oundLongitude><gmd:southBoundLatitude><gco:Decimal>59 .5</gco:Decimal></gmd:southBoundLatitude><gmd:northBou ndLatitude><gco:Decimal>69.0</gco:Decimal></gmd:northB oundLatitude></gmd:EX_GeographicBoundingBox></gmd:ge ographicElement></gmd:EX_Extent></pre> |
| scope: | Topographic mapping | |
| CC_OperationMethod: | | |
| name: | Transverse Mercator | |
| formula: | See: Hirvonen, R. A., 1970. The Use of Subroutines in Geodetic Computations, <i>Maanmittaus</i> . | |
| sourceDimensions: | 2 | |
| targetDimensions: | 2 | |
| CC_OperationParameter | | |
| name: | Latitude of natural origin | |
| CC_ParameterValue | | |
| value: | 0° | |
| CC_OperationParameter | | |

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name: Longitude of natural origin
CC_ParameterValue
value: 24° E
CC_OperationParameter
name: Scale factor at natural origin
CC_ParameterValue
value: 1.0
CC_OperationParameter
name: False easting
CC_ParameterValue
value: 24 500 000
CC_OperationParameter
name: False northing
CC_ParameterValue
value: 0

7 ETRS-TM n -tasokoordinaattijärjestelmien esimerkkinä ETRS-TM34

| UML identifier | Entry | XML encoding |
|-------------------------|---|--|
| CS_ProjectedCRS | | |
| name: | ETRS-TM34 | |
| alias: | ETRS89-TM34 | |
| domainOfValidity: | Europe between 18° E and 24° E | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic BoundingBox><gmd:westBoundLongitude><gco:Decimal>18 .0</gco:Decimal></gmd:westBoundLongitude><gmd:eastBou ndLongitude><gco:Decimal>24.0</gco:Decimal></gmd:eastB oundLongitude><gmd:southBoundLatitude><gco:Decimal>0. 0</gco:Decimal></gmd:southBoundLatitude><gmd:northBou ndLatitude><gco:Decimal>84.0</gco:Decimal></gmd:northB oundLatitude></gmd:EX_GeographicBoundingBox></gmd:ge ographicElement></gmd:EX_Extent></pre> |
| scope: | Projected coordinate reference system for conformal mapping at scales larger than 1:500 000 | |
| CS_CartesianCS | | |
| name: | ETRS-TM34 coordinate system | |
| CS_CoordinateSystemAxis | | |
| name: | Northing | |
| axisAbbrev: | N | |
| axisDirection: | north | |
| axisUnitID: | metre | |
| CS_CoordinateSystemAxis | | |
| name: | Easting | |
| axisAbbrev: | E | |
| axisDirection: | east | |
| axisUnitID: | metre | |
| CD_GeodeticDatum | | |
| name: | ETRS89 | |
| CC_Conversion | | |
| name: | ETRS-TM34 | |
| domainOfValidity: | Europe between 18° E and 24° E | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic BoundingBox><gmd:westBoundLongitude><gco:Decimal>18 .0</gco:Decimal></gmd:westBoundLongitude><gmd:eastBou ndLongitude><gco:Decimal>24.0</gco:Decimal></gmd:eastB oundLongitude><gmd:southBoundLatitude><gco:Decimal>0. 0</gco:Decimal></gmd:southBoundLatitude><gmd:northBou ndLatitude><gco:Decimal>84.0</gco:Decimal></gmd:northB oundLatitude></gmd:EX_GeographicBoundingBox></gmd:ge ographicElement></gmd:EX_Extent></pre> |
| scope: | | |
| CC_OperationMethod: | | |
| name: | Transverse Mercator | |
| formula: | See: Hirvonen, R. A., 1970. The Use of Subroutines in Geodetic Computations, <i>Maanmittaus</i> . | |
| sourceDimensions: | 2 | |
| targetDimensions: | 2 | |
| CC_OperationParameter | | |
| name: | Latitude of natural origin | |

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CC_ParameterValue
value: 0°

CC_OperationParameter
name: Longitude of natural origin

CC_ParameterValue
value: 21° E

CC_OperationParameter
name: Scale factor at natural origin

CC_ParameterValue
value: 0.9996

CC_OperationParameter
name: False easting

CC_ParameterValue
value: 500 000

CC_OperationParameter
name: False northing

CC_ParameterValue
value: 0

8 ETRS-LAEA-tasokoordinaattijärjestelmä

| UML identifier | Entry | XML encoding |
|-------------------------|---|--|
| CS_ProjectedCRS | | |
| name: | ETRS-LAEA | |
| alias: | ETRS89-LAEA | |
| domainOfValidity: | Europe | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Europe </gco:CharacterString></gmd:code></gmd:MD_Identifier></ gmd:geographicIdentifier></gmd:EX_GeographicDescription ></gmd:geographicElement></gmd:EX_Extent></pre> |
| scope: | Projected coordinate reference system for used for statistical applications at any scale | |
| CS_CartesianCS | | |
| name: | ETRS-LAEA coordinate system | |
| CS_CoordinateSystemAxis | | |
| name: | Northing | |
| axisAbbrev: | Y | |
| axisDirection: | north | |
| axisUnitID: | metre | |
| CS_CoordinateSystemAxis | | |
| name: | Easting | |
| axisAbbrev: | X | |
| axisDirection: | east | |
| axisUnitID: | metre | |
| CD_GeodeticDatum | | |
| name: | ETRS89 | |
| CC_Conversion | | |
| name: | ETRS-LAEA | |
| domainOfValidity: | Europe | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Europe </gco:CharacterString></gmd:code></gmd:MD_Identifier></ gmd:geographicIdentifier></gmd:EX_GeographicDescription ></gmd:geographicElement></gmd:EX_Extent></pre> |
| scope: | | |
| CC_OperationMethod: | | |
| name: | Lambert Azimuthal Equal Area | |
| formula: | See: Snyder, J. P., 1983. <i>Map Projections – A Working Manual</i> . U.S. Geological Survey Professional Paper 1395. | |
| sourceDimensions: | 2 | |
| targetDimensions: | 2 | |
| CC_OperationParameter | | |
| name: | Latitude of natural origin | |
| CC_ParameterValue | | |
| value: | 52° N | |
| CC_OperationParameter | | |
| name: | Longitude of natural origin | |
| CC_ParameterValue | | |
| value: | 10° E | |
| CC_OperationParameter | | |

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| | |
|-----------------------|----------------|
| name: | False easting |
| CC_ParameterValue | |
| value: | 4 321 000 m |
| CC_OperationParameter | |
| name: | False northing |
| CC_ParameterValue | |
| value: | 3 210 000 m |

9 ETRS-LCC-tasokoordinaattijärjestelmä

| UML identifier | Entry | XML encoding |
|-------------------------|---|--|
| CS_ProjectedCRS | | |
| name: | ETRS-LCC | |
| alias: | ETRS89-LCC | |
| domainOfValidity: | Europe | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Europe </gco:CharacterString></gmd:code></gmd:MD_Identifier></ gmd:geographicIdentifier></gmd:EX_GeographicDescription ></gmd:geographicElement></gmd:EX_Extent></pre> |
| scope: | Projected coordinate reference system for conformal mapping at scales of 1:500 000 and smaller. | |
| CS_CartesianCS | | |
| name: | ETRS-LCC coordinate system | |
| CS_CoordinateSystemAxis | | |
| name: | Northing | |
| axisAbbrev: | N | |
| axisDirection: | north | |
| axisUnitID: | metre | |
| CS_CoordinateSystemAxis | | |
| name: | Easting | |
| axisAbbrev: | E | |
| axisDirection: | east | |
| axisUnitID: | metre | |
| CD_GeodeticDatum | | |
| name: | ETRS89 | |
| CC_Conversion | | |
| name: | ETRS-LCC | |
| domainOfValidity: | Europe | <pre><gmd:EX_Extent xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/gmd extent.xsd"><gmd:geographicElement><gmd:EX_Geographic Description><gmd:geographicIdentifier><gmd:MD_Identifier ><gmd:code><gco:CharacterString>Europe </gco:CharacterString></gmd:code></gmd:MD_Identifier></ gmd:geographicIdentifier></gmd:EX_GeographicDescription ></gmd:geographicElement></gmd:EX_Extent></pre> |
| scope: | | |
| CC_OperationMethod: | | |
| name: | Lambert Conformal Conical | |
| formula: | See: Snyder, J. P., 1983. <i>Map Projections – A Working Manual</i> . U.S. Geological Survey Professional Paper 1395. | |
| sourceDimensions: | 2 | |
| targetDimensions: | 2 | |
| CC_OperationParameter | | |
| name: | Latitude of false origin | |
| CC_ParameterValue | | |
| value: | 52° N | |
| CC_OperationParameter | | |
| name: | Longitude of false origin | |
| CC_ParameterValue | | |
| value: | 10° E | |

JUHTA - Julkisen hallinnon tietohallinnon neuvottelukunta

CC_OperationParameter
name: Latitude of 1st standard parallel
CC_ParameterValue
value: 35° N

CC_OperationParameter
name: Latitude of 2nd standard parallel
CC_ParameterValue
value: 65° N

CC_OperationParameter
name: Easting at false origin
CC_ParameterValue
value: 4 000 000 m

CC_OperationParameter
name: Northing at false origin
CC_ParameterValue
value: 2 800 000 m