

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

Liite 4: Koordinaattijärjestelmien kuvaukset ISO 19111:2007 mukaisesti

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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-TM n , 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	<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>
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	<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>
name:	EUREF-FIN	
alias:	Finland	
domainOfValidity:		
scope:	National coordinate reference system	
remarks:	National realization of the ETRS89 reference system. 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.	
CS_EllipsoidalCS	EUREF-FIN coordinate system	
name:		
CS_CoordinateSystemAxis	geodetic latitude	
name:	ϕ	
axisAbbrev:		
axisDirection:	north	
axisUnitID:	degree	
CS_CoordinateSystemAxis	geodetic longitude	
name:	λ	
axisAbbrev:		
axisDirection:	east	
axisUnitID:	degree	
CD_GeodeticDatum	EUREF-FIN	
name:		

3 EUREF-FIN-GRS80h-koordinaattijärjestelmä

UML identifier	Entry	XML encoding
CS_GeodeticCRS name: alias: domainOfValidity:	EUREF-FIN-GRS80h EUREF-FIN 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:	National realization of the ETRS89 reference system. 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.	
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:	National realization of the ETRS89 reference system. 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.	
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	
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: domainOfValidity:	ETRS-GK24 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	<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>
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	<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>
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 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		

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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: alias: domainOfValidity:	ETRS-TM34 ETRS89-TM34 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	
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	

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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: alias: domainOfValidity:	ETRS-LAEA ETRS89-LAEA Europe	<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>
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: domainOfValidity:	ETRS-LAEA Europe	<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>
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 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

CS_ProjectedCRS
name:
alias:
domainOfValidity:

Entry

ETRS-LCC
ETRS89-LCC
Europe

XML encoding

```
<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>
```

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

```
<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>
```

scope:

CC_OperationMethod:

name: Lambert Conformal Conical
formula: See: Snyder, J. P., 1983. *Map Projections – A
Working Manual*. 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

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

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value:	4 000 000 m
CC_OperationParameter	
name:	Northing at false origin
CC_ParameterValue	
value:	2 800 000 m