Coordinate Systems and EPSG Codes

The CoordSysService uses XML Coordinate Reference System (CRS) to specify the source and target coordinate systems for the start and end transformations. The full XML DTD definition of CRS can be found in the OpenGIS Specification 01-014.

For European Petroleum Survey Group (EPSG) code ,for example Longitude/Latitude(WGS 84), we can present it as the following XML fragment:

```
<CoordinateReferenceSystem>
  <Identifier>
      <code>4326</code>
      <codeSpace>EPSG</codeSpace>
      </Identifier>
</CoordinateReferenceSystem>
```

The customized CRS may be more complex than a well-known one. The current GML is limited to use only well-known CRS. The CoordSys XML currently uses the following in the DTD:

```
srsName CDATA #IMPLIED (Note: sometimes #REQUIRED)
```

The srsName text must contain both the CRS name-space and the name separated by a colon. An example XML containing geometries in WGS 84 would look like the following:

```
srsName="EPSG:4326"
```

For more information about EPSG please visit the following web site http://www.epsg.org/

Widely used EPSG codes

Coo		EPSG Code			
Longitude ,	/	Latitude	(WGS	72)	4322
Longitude ,	/	Latitude	(WGS	84)	4326
Longitude ,	/	Latitude	(NAD	83)	4629
Longitude ,	/	Latitude	(OSGI	3 3 6)	4277

UTM WGS 84 - EPSG code

(Universal Transverse Mercator (WGS 84) - EPSG code Table)

			UTM Zone				EPSG Code
UTM	Zone	1	Northern	Hemisphere	(WGS	84)	32601
UTM	Zone	1	Southern	Hemisphere	(WGS	84)	32701
UTM	Zone	2	Northern	Hemisphere	(WGS	84)	32602
UTM	Zone	2	Southern	Hemisphere	(WGS	84)	32702
UTM	Zone	3	Northern	Hemisphere	(WGS	84)	32603
UTM	Zone	3	Southern	Hemisphere	(WGS	84)	32703
UTM	Zone	4	Northern	Hemisphere	(WGS	84)	32604
UTM	Zone	4	Southern	Hemisphere	(WGS	84)	32704
UTM	Zone	5	Northern	Hemisphere	(WGS	84)	32605
UTM	Zone	5	Southern	Hemisphere	(WGS	84)	32705

UTM	Zone	6	Northern	Hemisphere	(WGS	84)	32606
UTM	Zone	6	Southern	Hemisphere	(WGS	84)	32706
UTM	Zone	7	Northern	Hemisphere	(WGS	84)	32607
UTM	Zone	7	Southern	Hemisphere	(WGS	84)	32707
UTM	Zone	8	Northern	Hemisphere	(WGS	84)	32608
UTM	Zone	8	Southern	Hemisphere	(WGS	84)	32708
UTM	Zone	9	Northern	Hemisphere	(WGS	84)	32609
UTM	Zone	9	Southern	Hemisphere	(WGS	84)	32709
UTM	Zone	10	Northern	Hemisphere	(WGS	84)	32610
UTM	Zone	10	Southern	Hemisphere	(WGS	84)	32710
UTM	Zone	11	Northern	Hemisphere	(WGS	84)	32611
UTM	Zone	11	Southern	Hemisphere	(WGS	84)	32711
UTM	Zone	12		Hemisphere	(WGS	84)	32612
UTM	Zone	12		Hemisphere	(WGS	84)	32712
UTM	Zone	13		Hemisphere	(WGS	84)	32613
UTM	Zone	13		Hemisphere	(WGS	84)	32713
UTM	Zone	14		Hemisphere	(WGS	84)	32614
-	Zone	14	Southern	Hemisphere	(WGS	84)	32714
UTM	Zone	15	Northern	Hemisphere	(WGS	84)	32615
UTM	Zone	15		Hemisphere	(WGS	84)	32715
UTM	Zone	16	Northern	Hemisphere	(WGS	84)	32616
	Zone	16		Hemisphere	(WGS	84)	32716
	Zone	17		Hemisphere	(WGS	84)	32617
	Zone	17		Hemisphere	(WGS	84)	32717
-	Zone	18		Hemisphere	(WGS	84)	32618
-	Zone	18		Hemisphere	(WGS	84)	32718
	Zone	19		Hemisphere	(WGS	84)	32619
-	Zone	19		Hemisphere	(WGS	84)	32719
-	Zone	20		Hemisphere	(WGS	84)	32620
	Zone	20		Hemisphere	(WGS	84)	32720
	Zone	21		Hemisphere	(WGS	84)	32621
-	Zone	21		Hemisphere	(WGS	84)	32721
	Zone	22		Hemisphere	(WGS	84)	32622
	Zone	22		Hemisphere	(WGS	84)	32722
-	Zone	23		Hemisphere	(WGS	84)	32623
	Zone	23		Hemisphere	(WGS	84)	32723
-	Zone			Hemisphere	(WGS	84)	32624
UTM	Zone	24		Hemisphere	(WGS		32724
	Zone	25		Hemisphere	(WGS	84)	32625
	Zone	25		Hemisphere	(WGS		32725
	Zone	26		Hemisphere	(WGS		32626
	Zone	26		Hemisphere	(WGS		32726
	Zone	27		Hemisphere	(WGS		32627
	Zone	27 28		Hemisphere	(WGS		32727
	Zone	28		Hemisphere	(WGS		32628
	Zone	29		Hemisphere	(WGS		32728
	Zone Zone	29		Hemisphere Hemisphere	(WGS		32629
		30		=	(WGS		32729
	Zone Zone	30		Hemisphere Hemisphere	(WGS (WGS		32630 32730
	Zone	31		Hemisphere	(WGS		32730
	Zone	31		Hemisphere	(WGS		32731
	Zone	32		Hemisphere	(WGS		32632
	Zone	32		Hemisphere	(WGS		32732
	Zone			Hemisphere	(WGS		32633
	Zone	33		Hemisphere	(WGS	84)	32733
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UTM	Zone	34	Northern	Hemisphere	(WGS	84)	32634
UTM	Zone	34	Southern	Hemisphere	(WGS	84)	32734
UTM	Zone	35	Northern	Hemisphere	(WGS	84)	32635
UTM	Zone	35	Southern	Hemisphere	(WGS	84)	32735
UTM	Zone	36	Northern	Hemisphere	(WGS	84)	32636
UTM	Zone	36	Southern	Hemisphere	(WGS	84)	32736
UTM	Zone	37	Northern	Hemisphere	(WGS	84)	32637
UTM	Zone	37	Southern	Hemisphere	(WGS	84)	32737
UTM	Zone	38	Northern	Hemisphere	(WGS	84)	32638
UTM	Zone	38	Southern	Hemisphere	(WGS	84)	32738
UTM	Zone	39	Northern	Hemisphere	(WGS	84)	32639
UTM	Zone	39	Southern	Hemisphere	(WGS	84)	32739
UTM	Zone	40	Northern	Hemisphere	(WGS	84)	32640
UTM	Zone	40	Southern	Hemisphere	(WGS	84)	32740
UTM	Zone	41	Northern	Hemisphere	(WGS	84)	32641
UTM	Zone	41		Hemisphere	(WGS	84)	32741
UTM	Zone	42	Northern	Hemisphere	(WGS	84)	32642
UTM	Zone	42		Hemisphere	(WGS	84)	32742
UTM	Zone	43		Hemisphere	(WGS		32643
UTM	Zone	43		Hemisphere	(WGS	84)	32743
UTM	Zone	44		Hemisphere	(WGS		32644
UTM	Zone	44		Hemisphere	(WGS		32744
UTM	Zone	45		Hemisphere	(WGS	•	32645
UTM	Zone	45		Hemisphere	(WGS		32745
UTM	Zone	46		Hemisphere	(WGS	84)	32646
UTM	Zone	46		Hemisphere	(WGS	•	32746
UTM	Zone	47		Hemisphere	(WGS		32647
UTM	Zone	47		Hemisphere	(WGS	84)	32747
UTM	Zone	48		Hemisphere	(WGS	•	32648
UTM	Zone	48		Hemisphere	(WGS	•	32748
UTM	Zone	49		Hemisphere	(WGS	84)	32649
UTM	Zone	49		Hemisphere	(WGS	84)	32749
UTM	Zone	50		Hemisphere	(WGS		32650
UTM	Zone	50		Hemisphere	(WGS		32750
UTM	Zone	51		Hemisphere	(WGS	•	32651
UTM	Zone	51		Hemisphere	(WGS	84)	32751
UTM	Zone	52		Hemisphere	(WGS	•	32652
	Zone			Hemisphere			32752
	Zone			Hemisphere			32653
UTM	Zone	53		Hemisphere			32753
	Zone			Hemisphere			32654
UTM	Zone	54		Hemisphere			32754
UTM	Zone	55		Hemisphere	(WGS		32655
	Zone			Hemisphere	(WGS		32755
	Zone			Hemisphere	(WGS		32656
	Zone			Hemisphere	(WGS		32756
	Zone			Hemisphere	(WGS		32657
	Zone			Hemisphere	(WGS		32757
	Zone			Hemisphere	(WGS		32658
	Zone			Hemisphere	(WGS		32758
	Zone			Hemisphere	(WGS		32659
	Zone			Hemisphere	(WGS		32759
	Zone			Hemisphere	(WGS		32660
	Zone			Hemisphere	(WGS		32760
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