

11 Portrayal

This clause defines the rules for layers and styles to be used for portrayal of the spatial object types defined for this theme. Portrayal is regulated in Article 14 of the IRs.

IR Requirement

Article 14

Portrayal

1. For the portrayal of spatial data sets using a view network service as specified in Commission Regulation No 976/2009 ⁽¹⁾, the following shall be available:
 - (a) the layers specified in Annex II for the theme or themes the data set is related to;
 - (b) for each layer at least a default portrayal style, with as a minimum an associated title and a unique identifier.
2. For each layer, Annex II defines the following:
 - (a) a human readable title of the layer to be used for display in user interface;
 - (b) the spatial object type(s), or sub-set thereof, that constitute(s) the content of the layer.

In section 11.1, the *types* of layers are defined that are to be used for the portrayal of the spatial object types defined in this specification. A view service may offer several layers of the same type, one for each dataset that it offers data on a specific topic.

NOTE The layer specification in the IRs only contains the name, a human readable title and the (subset(s) of) spatial object type(s), that constitute(s) the content of the layer. In addition, these Technical Guidelines suggest keywords for describing the layer.

Recommendation 1 It is recommended to use the keywords specified in section 11.1 in the *Layers Metadata parameters* of the INSPIRE View service (see Annex III, Part A, section 2.2.4 in Commission Regulation (EC) No 976/2009).

Section 11.2 specifies one style for each of these layers. It is proposed that INSPIRE view services support this style as the default style required by Article 14(1b).

TG Requirement 1 For each layer specified in this section, the styles defined in section 11.2 shall be available.

NOTE The default style should be used for portrayal by the view network service if no user-defined style is specified in a portrayal request for a specific layer.

In section 11.3, further styles can be specified that represent examples of styles typically used in a thematic domain. It is recommended that also these styles should be supported by INSPIRE view services, where applicable.

Recommendation 2 In addition, it is recommended that, where applicable, INSPIRE view services also support the styles defined in section 11.3.

Where XML fragments are used in the following sections, the following namespace prefixes apply:

- sld="http://www.opengis.net/sld" (WMS/SLD 1.1)
- se="http://www.opengis.net/se" (SE 1.1)
- ogc="http://www.opengis.net/ogc" (FE 1.1)

¹ OJ L 274, 20.10.2009, p. 9.

11.1 Layers to be provided by INSPIRE view services

Layer Name	Layer Title	Spatial object type(s)	Keywords
BR.Bio-geographicalRegion	Bio-geographical Regions	Bio-geographicalRegion	Bio-geographical regions, ecological regions


11.1.1 Layers organisation

None.

11.2 Styles required to be supported by INSPIRE view services

11.2.1 Styles for the layer BR.Bio-geographicalRegion

Style Name	BR.Bio-geographicalRegions.Default
Default Style	yes
Style Title	Bio-geographical Regions Default Style
Style Abstract	This style is the generic style for visualising the boundaries of the biogeographical regions. Polygon geometries are rendered using a 50% grey (#808080) fill and a solid black outline with a stroke width of 1 pixel. Where a RegionClass has a colour scheme defined it should be used as the default colour scheme. This default scheme is generic and is superceded when an established colour scheme exists.
Symbology	<p>The SLD specifying the symbology is distributed in a file separately from the data specification document.</p> <pre> <sld:NamedLayer> <se:Name>BR.BiogeographicalRegions.Default</se:Name> <sld:UserStyle> <se:Name>INSPIRE_Default</se:Name> <sld:IsDefault>1</sld:IsDefault> <se:FeatureTypeStyle version="1.1.0"> <se:Description> <se:Title>Biogeographical regions Default style</se:Title> <se:Abstract>The geometry is rendered using a 50% grey (#808080) fill and a solid black outline with a stroke width of 1 pixel.</se:Abstract> </se:Description> <se:FeatureTypeName>BiogeographicalRegion</se:FeatureTypeName> <se:Rule> <se:PolygonSymbolizer> <se:Geometry> <ogc:PropertyName>BR. Bio-geographicalRegion.geometry</ogc:PropertyName> </se:Geometry> <se:Fill/> <se:Stroke/> </se:PolygonSymbolizer> </se:Rule> </se:FeatureTypeStyle> </sld:UserStyle> </sld:NamedLayer> </pre> <p>Example:</p>

	 <p>The map shows the geographical outline of the Czech Republic, shaded in gray. It is divided into two main regions: the 'alpsky region' (Alps region) in the north and the 'panonsky region' (Pannonic region) in the south. The 'panonsky region' label appears in two locations: one in the southwest and one in the southeast.</p>
Minimum & maximum scales	<min scale> - <max scale>

11.3 Styles recommended to be supported by INSPIRE view services

Those biogeographical regions that correspond to the values in the 'Natura2000 and Emerald Biogeographical regions' codelist have a predefined colour scheme. This colour scheme is described in Figure 6, where the colour and the hexadecimal value for the colour are listed next to the name of the biogeographical region.








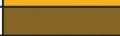


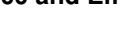

Name	Colour	Colour (hexadecimal code)
Alpine		#FF73DF
Anatolian		#ED52B0
Arctic		#CAFCEFD
Atlantic		#00C5FF
Black Sea		#FFAAC6
Boreal		#0070FF
Continental		#4CE600
Macaronesian		#FFFF73
Mediterranean		#FFAA00
Pannonian		#734C00
Steppic		#FFCB94

Figure 6 – Colour scheme for Natura 2000 and Emerald Biogeographical regions

11.3.1 Styles for the layer BR.Bio-geographicalRegion

Style Name	BR.Bio-geographicalRegion.Natura2000AndEmerald
Style Title	Natura 2000 and Emerald Bio-geographical regions style
Style Abstract	This style is to be used when visualising the Regions covered under the Natura2000 and Emerald biogeographical regions code lists. This style is inherited from the paper maps used by the Council of Europe and Habitats Committee for visualising and adopting the Biogeographical regions outlined in the Habitats Directive and expanded by the Bern Convention under the Emerald network.
Symbology	<pre> <sld:NamedLayer> <se:Name>BR.Natura2000andEmeraldBio-geographicalRegions</se:Name> <sld:UserStyle> <se:Name>INSPIRE_Default</se:Name> <sld:IsDefault>1</sld:IsDefault> <se:FeatureTypeStyle version="1.1.0"> <se:Description> <se:Title> Natura 2000 and Emerald Biogeographical regions style</se:Title> <se:Abstract>Where 'alpine' is selected in the code list the geometry is rendered using a pink (#FF73DF) fill and a pink (#FF73DF) outline with a stroke width of 1 pixel Where 'atlantic' is selected in the code list the geometry is rendered using a blue (#00C5FF) fill and a blue (#00C5FF) outline with a stroke width of 1 pixel Where 'boreal' is selected in the code list the geometry is rendered using a dark blue (#0070FF) fill and a dark blue (#0070FF) outline with a stroke width of 1 pixel Where 'continental' is selected in the code list the geometry is rendered using a green (#4CE600) fill and a green (#4CE600) outline with a stroke width of 1 pixel Where 'macaronesian' is selected in the code list the geometry is rendered using a yellow (#FFFF73) fill and a yellow (#FFFF73) outline with a stroke width of 1 pixel Where 'mediterranean' is selected in the code list the geometry is rendered using a orange (#FFAA00) fill and a orange (#FFAA00) outline with a stroke width of 1 pixel </pre>

	<p>Where 'arctic' is selected in the code list the geometry is rendered using a pale blue (#CAFCFD) fill and a pale blue (#CAFCFD) outline with a stroke width of 1 pixel</p> <p>Where 'pannonian' is selected in the code list the geometry is rendered using a brown (#734C00) fill and a brown (#734C00) outline with a stroke width of 1 pixel</p> <p>Where 'steppic' is selected in the code list the geometry is rendered using a beige (#FFCB94) fill and a beige (#FFCB94) outline with a stroke width of 1 pixel</p> <p>Where 'blackSea' is selected in the code list the geometry is rendered using a pink (#FFAAC6) fill and a pink (#FFAAC6) outline with a stroke width of 1 pixel</p> <p>Where 'anatolian' is selected in the code list the geometry is rendered using a purple (#ED52B0) fill and a purple (#ED52B0) outline with a stroke width of 1 pixel</p> <pre></se:Abstract> </se:Description> <se:FeatureTypeName>BR.BiogeographicalRegions</se:FeatureTypeName> <se:Rule> <se:PolygonSymbolizer> <se:Geometry> <ogc:PropertyName>BR. Bio- geographicalRegion.geometry</ogc:PropertyName> </se:Geometry> <se:Fill/> <se:Stroke/> </se:PolygonSymbolizer> </se:Rule> </se:FeatureTypeStyle> </sld:UserStyle> </sld:NamedLayer></pre> <p>Example:</p> 
Minimum & maximum scales	<min scale> - <max scale>