Title: CoverageFill Colour Interpolation

S-100 Maintenance - Change Proposal Form

Organisation	NIWC	Date	8/16/2019
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Change Proposal Type *(Select only one option)*

1.Clarification	2.Correction	3.Extension
	X	

Location (*Identify all change proposal locations*)

S-100 Version No.	Part No.	Section No.	Proposal Summary
Version 4	9 9a	12.7.4.3 11.2.2.7	Describe colour interpolation method Describe colour interpolation method

Change Proposal

Add the following to the Part 9 description of the *endColor* attribute of CoverageColor:

Role Name	*Name*	*Description*
Class	CoverageColor	A class to fill a Coverage with color
Attribute	penWidth	Optional pen width to apply for dot color used for discrete points
Role	startColor	The color to assign to the matching range or to use as the start point in a color ramp when 'endColor' is defined
Role	endColor	The color to use as stop point in a color ramp. The range of values is spread linearly across the range of colors from 'startColor' to 'endColor' to produce a gradient effect. The start and end colours shall be converted to the CIE xyL color space and each component (i.e. x, y, L and transparency) shall be interpolated individually before converting back to sRGB for display.

Add the following to the Part 9a description of the endColor attribute of CoverageColor:

CoverageColor:*startToken,startTransparency[,endToken,endTransparency][,penWidth]*

…

endToken,endTransparency

If given, the colour to use as the stopping point in a color ramp. The range of values is spread linearly across the range of colours from 'startColor' to 'endColor' to produce a gradient effect. ==The start and end colours shall be converted to the CIE xyL color space and each component (i.e. x, y, L and transparency) shall be interpolated individually before converting back to sRGB for display.==
…

Change Proposal Justification

As presented in S100WG4-8.2, the color interpolation method should be explicitly defined to prevent inconsistent implementation.

What parts of the S-100 Infrastructure will this proposal affect?

☐   S-100 Feature Concept Dictionary Interface or Database
☐   S-100 Portrayal Register
☐   S-100 Feature Catalogue Builder
☐   S-100 Portrayal Catalogue Builder
☐   S-100 UML Models

Please send completed forms and supporting documentation to the secretary S-100WG.