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Change Request #:	368
Assigned OGC Document #:	14-120
Name:	*Randoplph Gladish
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Document Name/Version:	*KML / 2.2.0
OGC Project Document:	*07-147r2

If this is a revision of a previous submission and you have a Change Request Number, then check here: ☐
Enter the CR number here: [   ]
Enter the Revsion Number that you are revising here: [   ]

Title:🔵	* SVG Rendering Support
Source:🔵	*US Army Common Overlay Working Group
Work item code:🔵	
Category:🔵	* B (Addition of feature) ⇕

Reason for change:🔵	* KML rendering of 2D line and area geometries is limited to a relatively simple set of style properties. KML does not support complex line decoration styles, which is often used to convey meaning beyond color and line width. Extensions to support dashed line styles and fill pattern styles have been proposed for KML 2.4, but are ultimately inadequate to address complex rendering decorations present in symbolized linear and areal placemarks. Demarcation lines, weather fronts and other domains attribute special meaning using complex line decorations. Extended geometry styling support would allow KML to more compactly encode presentation without adding unnecessary spatial geometry to reproduce repetitive styling patterns such as railroad tracks or weather fronts. Existing standards, such as Scalable Vector Graphics (SVG)and OGC Symbology Encoding (SE), or portions thereof, could be used to extend the styling capabilities of KML. Instead of icons limited to PNG files, SVG or SE could be rendered at a prescribed scale and orientation.
Summary of change:🔵	* Extend style support to include Scalable Vector Graphics (SVG) or Symbology Encoding to further separate geometry and style concerns.ndering. Scalable Vector Graphics (SVG) is a W3C standard that describes complex rendering rules in a portable XML-compatible format. The use of style information encoded as SVG, encoded inline, or via network link, would allow applications to use external services, shared style resources, or KMZ encapsulated style resources. For example, a KML geometry element that encodes a simple polygon could render through a styling service that interprets usage-specific styling instructions and returns an SVG instruction to render a stylized line consisting of small triangles between the geometry

	element endpoints.
Consequences if not approved:	Use of KML to exchange information will be limited, or style information will recast as geometry.

Clauses affected:	* 12
Additional Documents affected:	
Supporting Documentation:	Scalable Vector Graphcis (SVG) Version 1.1 (Second Edition), http://www.w3.org/TR/SVG/
Comments:	
Status:	Assigned
Assigned To:	KML SWG
Disposition:	Referred