All Fields marked with \* are mandatory.

Change Request #:	106
Assigned OGC Document #:	10-143
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Document Name/Version:	*Symbology Encoding Implementation Specification / 1.1.0
OGC Project Document:	*05-077r4
If this is a revision o Enter the CR numbe Enter the Revsion N	of a previous submission and you have a Change Request Number, then check here:
Title:	*Reformulate specification on scale selection in Rules
Source:	*SLDSE.swg
Work item code:	
Category:	* D (Editorial modification)
Reason for change:	* The specification regarding scale selection in Rules is lengthy and
	hard to understand. Moreover, part of the text is at least misleading. A certain amount of rewording is also necessary because the next verion of WMS will introduce a PIXELSIZE parameter.
Summary of change:	* Reword the specification for scale selection in a way that clearly reflects the rules for scale determination from the viewing parameters and the explicitly given or assumed standard pixel size.
Consequences if not approved:	Continued existence of a specification, which is unnecessarily hard to understand and misleading.
Clauses affected:	* 10.2

## Additional Documents affected:

allecteu.	
Supporting Documentation:	
Comments:	<pre>In my view the described things such as a 'scale denominator relative to a 'standardized rendering pixel size' and (consequently) an 'actual acole denominator' in contrast to a 'standard scale denominator' do not exist. Scale is the ratio of a length unit in the map and its equivalent on the ground. For example, 1:100000 means that lcm on the map is 'scale denominator relative to a 'standardized rendering pixel s'scale'. Of course, given the mapping from a rectangular ground area to an equivalent array of pixels, you will require the size of a pixel to determine the scale. But this is it You need not transform this scale to any other scale which is somehow 'based on a standard pixel size'. An example: Assume you see an SLD/SE-generated image of 600x600 standard-sized pixels on your screen. This will cover a square of 16.8cm x 16.8cm. Your client might have requested this by mapping a ground BBox of 6km x 6km to those 600x600 pixels. Hence a pixel will be equivalent to 6000m/600-10m on the ground. The scale denominator computed from this will be 10m/0.2Bmm=35714.3, and this scale will select some associated Rules. New you want to make a hardcopy of this picture on your printer, which - for the sake of simplicity - we assume to have a resolution of 0.028mm x 0.028mm (ten-fold in hour ascengreat to 'standard' resolution]. Hardcopy means: you want to see the same picture of size 16.8cm x 16.8cm with the same features on it and the same symbolization. Your client will then request a map with identical BBox (6km x 6km) and a ten-fold (in each axis) larger array of 6000x6000 pixels. The client will select. The SE renderer will calculate the size of a pixel on the ground to be 6000m/6000-1m, and subsequently determine the scale denominator as Im/0.028mm3571.3. This scale denominator will select the same Rules as in the screen image case and this is exactly what you want because you want to see the same picture on your hardcopy. Of course, this will only work if the geometric items of the SE specification the deter</pre>
Status:	Assigned
Assigned To:	SLDSE 1.2 SWG
Disposition:	Reffered