Template for comments and secretariat observations

		Date: 3/2/2006	Document: **ISO 19123:2005(E)**

1	2	(3)	4	5	(6)	(7)
MB[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment[2]	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	5.3.8	Figure 2	te	Inconsistent return type for Coverage.evaluate() method. Text says Set<Record>, UML says Record.	Change figure to agree with text.	
	5.9.3	Figure 3	te	Inconsistent type of interpolationParameterTypes attribute. Text says RecordType, Figure says Record. Relationship to interpolationParameters in ValueObject suggests that RecordType is correct.	Change figure to agree with text.	
	5.3.6		te	The term "lie within" is ambiguous. It could mean "contained within" or "intersects", etc. Either a more precise term should be used or some form of control should be provided.	Change "lie within" to "completely contained within"	
	5.3.7		te	find() returns a Sequence of CV_GeometryValuePairs, yet the text imposes the requirement that the returned values include the distance from the direct position to each object. This requirement requires a different return type.	Drop the requirement that returned values include distance from query point.	
	5.3.7		te	The phrase "ordered by distance from the DirectPosition" is ambiguous for all non-point geometries.	Replace with "ordered by distance of the geometry's centroid from the DirectPosition"	
	5.3.7		te	The concept of a distance in spatio-temporal coverages has not been defined. For instance, consider a coverage with two constituent objects: one has a spatial location exactly equal to the DirectPosition, but occurs an hour later. The other occurs at the same time, but is three meters distant. Which has a smaller distance from the	Define a standard means of computing spatio-temporal distances. Then use it. Until such a standard is defined, find should return an error on spatio-temporal coverages, and should behave as specified on pure-spatial or pure-temporal coverages.	

Type of comment: **ge** = general   **te** = technical   **ed** = editorial

NOTE   Columns 1, 2, 4, 5 are compulsory.

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				DirectPosition, therefore first in the returned list?		
	5.9.8, 5.10.1	Figure 3	te	The CoverageFunction association on ContinuousCoverage has a multiplicity 1..*. Yet the text in 5.9.8 states that the association is optional in the case of analytical coverages. In the non-analytical-coverage case, section 5.10.1 states that the CV_ValueObjects may be generated in the execution of an evaluate() operation and need not be persistent: also optional.	Change the figure to have a multiplicity 0..* on CoverageFunction associated with ContinuousCoverage, to be consistent with the text.	
	5.2	Figure 1	te	The figure does not show the dependency of the Coverage Core package on the Segmented Curve package, imposed by Coverage.commonPointRule.	Add a dependency arrow from Coverage Core to Segmented Curve.	
	5.2	Figure 1	te	The figure does not show the dependency of the Coverage Core package on the Quadrilateral Grid package, imposed by the use of CV_GridPoint as an attribute of CV_GridPointValuePair.	Add a dependency arrow from Coverage Core to Quadrilateral Grid.	
	8.11.4	paragraph 1, line 3	ed	"CV_ValuesMatrix (8.14)" should be "CV_GridValuesMatrix (8.14)"	Correct the class name	
	8.11.4	paragraph 1, line 3	ed	"CV_QuadrilateralGridCoverage.source" should be "CV_ContinuousQuadrilateralGridCoverage.source"	Correct the class name	
	8.11.4	paragraph 1, line 1	te	OCL for evaluate() function declares the return value to be Record instead of Set<Record>.	Correct OCL to return Set<Record>	
	5.9.6	paragraph 1,	te	OCL for evaluate() function declares the return value to	Correct OCL to return Set<Record>	

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		line 1		be Record instead of Set<Record>.		
	8.12.2	Figure 18	te	The geometry attribute of CV_GridValueCell is CV_GridCell, which is *not* a CV_DomainObject. It *must* be a child of CV_DomainObject in order to override this inherited property of CV_ValueObject.	Make CV_GridCell inherit from CV_DomainObject.	
	8.3.6	Figure 16	te	Inconsistent multiplicities on CV_GridPoint and CV_GridCell. There must be at least 4 CV_GridPoints for a 2D grid to formulate one grid cell. Furthermore, these must be in a square, not a line. Ergo, CV_GridCell cannot be mandatory.	Make the EvaluationStructure association optional.	
	8.3.3		te	With regard to the names of axes, some reference to the naming constraints in 19111 section 10.3 should be made. Users should be strongly encouraged to use the suggested names when they apply and to avoid names which do not apply.	Insert a reference to the established naming constraints.	
	8.8	Figure 17	ed	Typo in type: "Sequencee<Record>" Class: CV_GridValuesMatrix Attribute: values	Change figure to read "Sequence<Record>"	
	8.8	Figure 17	ed	Typo in type: "DirectyPosition" Class: CV_ReferencableGrid Method: invCoordTransform Parameter: p	Change figure to read "DirectPosition"	
	8.8	Figure 17	ed	Multiple typos: "CV_GridCoordinate" Class: CV_ReferencableGrid	Change all occurrence to "CV_GridCoordinates"	

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				Method: invCoordTransform Method: coordTransform Class: CV_RectifiedGrid Method: coordConv Method: invCoordConv		
	8.13.2	Paragraph 1, line 2	ed	Typo: "CV_ValuesMatrix"	Change text to read "CV_GridValuesMatrix"	
	6.5	Paragraph 1	ed	Typo: "GM_GridPoint"	Change text to read "CV_GridPoint"	
	6.5 & 8.13		ed	Class CV_GridPointValuePair is described twice. Worse, the class is considered to be part of the Coverage Core package, but is described in the Discrete Coverage and Quadrilateral Grid coverage sections.	Consolidate the two descriptions. The location of the description should be in the containing package.	
	5.3.4	Figure 2	ed	Typo in type: "CommonPointRule" Class: CV_Coverage Attribute: commonPointRule	Change figure to read "CV_CommonPointRule"	
	8.5		te	The inherited SpatialComposition association is not adequately specified. Is it a copy of the integer coordinates in the gridCoord attribute (and an associated EngineeringCRS), or is it a duplicate of the Reference association? In either case, there are two pieces of information and three means of accessing them, which means that at least one association or attribute should be marked derived.	I suggest that SpatialComposition derive from gridCoord by casting the integer values with the floating point GM_Point representation.	

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