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Change Request #:	311
Assigned OGC Document #:	13-087
Name:	*Steven Smolders
Organization:	*GIM nv
Email:	*steven.smolders@gim.be
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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 Revision Number that you are revising here:	
Title: 	* [EO PMOS SWG] Improve the description of EO Product Masks
Source: 	*ESA, GIM
Work item code: 	
Category: 	* B (Addition of feature)
Reason for change: 	* Allow to better describe EO Product Mask information.
Summary of change: 	* The current specification allows encoding information on the EO Product masks by specification of the filename of the masks, the format, the coordinate reference system and the type of masks. The following additions are proposed: 1/ The MaskInformation/type element is limited to the enumeration CLOUD, SNOW and QUALITY. The fixed enumeration is not detailed enough to characterise the type of mask. It is therefore proposed to add a

	new optional property subType that allows to further specify the type of mask. 2/ It is not always practical to have to refer to an external mask file to retrieve the mask geometries. To solve this, a new optional property multiExtentOf will be added to the MaskInformation element that allows inline encoding of mask polygon geometries using the gml:MultiSurface/gml:SurfaceMembers/gml:Polygon construct. Either the fileName or the multiExtentOf shall be provided. The cardinality of the existing filename property is hence relaxed from 1 to 0..1. 3/ When working with an external mask file, the information model and encoding is not prescribed. One can provide any raster or vector encoded mask file. In order to increase interoperability, a recommended GML 3.2.1 application schema for encoding mask information will be added as Informative annex F. The root element is Mask, a feature collection that contains a set of MaskFeatures as its members. Each MaskFeature is hereby characterised by its polygonal geometry encoded within an extentOf element and a maskType element. The maskType is mission specific and should refer to mission/ground segment dedicated codeSpace (gml:CodeWithAuthorityType). The expected structure for the geometry is gml:Polygon with 1 gml:exterior/gml:LinearRing/gml:posList for representing the outerboundary and 0 to n gml:interior/gml:LinearRing/gml:posList elements representing the innerboundaries (holes).
Consequences if not approved: ?	
Clauses affected: ?	* Section 8.1.4 UML diagram and table. Addition of new Informative Annex F
Additional Documents affected: ?	
Supporting Documentation: ?	
Comments: ?	
Status: ?	Assigned
Assigned To: ?	EO PMOS SWG
Disposition: ?	Referred