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Change Request #:	266
Assigned OGC Document #:	13-003
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Document Name/Version:	*GeoAPI 3.0 Implementation Standard / 3.0
OGC Project Document:	*09-083r3
If this is a revision of a previous submission and you have a Change Request Number, then check here: <input type="checkbox"/>	
Enter the CR number here: <input type="text"/>	
Enter the Revision Number that you are revising here: <input type="text"/>	
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Title: ⓘ	* <input type="text" value="[GeoAPI 3.0 SWG] CoordinateOperationFactory is missing a way to create Opera"/>
Source: ⓘ	* http://jira.codehaus.org/browse/GEO-205
Work item code: ⓘ	
Category: ⓘ	* B (Addition of feature) ▾
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Reason for change: ⓘ	* The CoordinateOperationFactory interface provides constructor methods for ISO 19111 Conversion instances (used by map projections), but there is currently no easy way to get the OperationMethod instance to associate to the Conversion. This hole forces the users to either fetch OperationMethods in an indirect way (e.g. from an EPSG code), or to rely on implementation-specific API.
Summary of change: ⓘ	* Add the following method to the CoordinateOperationFactory interface, as a complement to the other create(...) methods: <code>OperationMethod createOperationMethod(Map<String,?> properties, Integer sourceDimension, Integer targetDimension,</code>

	<p>ParameterDescriptorGroup parameters)</p> <p>Additionally, given that implementations often have a pre-defined set of OperationMethod instances (because operation methods are associated to formulas, which are typically implemented by Java codes), add a method for fetching such pre-defined instance:</p> <pre>OperationMethod getOperationMethod(String name)</pre>
Consequences if not approved: ⓘ	<p>Users wanting to create map projections explicitly (as opposed to using an EPSG code) would still be faced to an API hole regarding OperationMethod. Users would still have to either rely on implementation-specific API or fetch OperationMethod instances in a convolved way.</p>
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Clauses affected: ⓘ	<p>*</p> <p>Related to 11.2.1. Change in Annex C.</p>
Additional Documents affected: ⓘ	<p>Java file org.opengis.operation.CoordinateOperationFactory.</p>
Supporting Documentation: ⓘ	
Comments: ⓘ	
Status: ⓘ	<input type="text" value="Assigned"/>
Assigned To: ⓘ	<input type="text" value="GeoAPI 3.0 SWG"/>
Disposition: ⓘ	<input type="text" value="Referred and Posted"/>