All Fields marked with * are mandatory.

Change Request #:	253
Assigned OGC Document #:	12-149
Name:	*Panagiotis (Peter) A. Vretanos
Organization:	*CubeWerx Inc.
Email:	*pvretano@cubewerx.com
Document Name/Version:	*Web Feature Service 2.0 Interface Standard (also ISO 19142) / 2.0
OGC Project Document:	*09-025r1

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: 🔵	* [WFS 2.0] Allow DescribeFeatureType to reference an existing schema rather th
Source: 🔵	*Eric.Boisvert@RNCan-NRCan.gc.ca
Work item code: 🔵	
Category: 🔵	* C (Functional modification of feature) ⇕

Reason for change: 🔵	* The DescribeFeatureType, the way is implemented is useless for community models. In community schema, we want to say, my feature model complies to this schema over there (eg, http://schemas.geosciml.org/geologicunit/3.0/geologicUnit.xsd). If the schema is generated by the server, they might be indentical, but the client has no way to check (unless it compares the infosets - text comparaison is not adequate). XSD validator assume schema uniqueness by their locations, so if two xsd containing the same stuff comes from two different locations, the validator throws an error (duplicate type). This situation totally prevents the WFS DescribeFeature type to serialize the xsd for the feature type, because in large complex domain model such as GeoSciML, it need to include/import the other xsd from the community model -- which also includes a copy of the feature it actually describes in XSD (so - same type describe once using WFS server location and a second time from community schema on the web).

	What I've seen from people that implement WSF over complex community model is that DescribeFeatureType just returns a xsd:include to the domain schema (nothing else) for whatever features is asked for. This piece of information is in principle already available in the GetCapability (if the provider too care of including the schemaLocation for the namespace used in the FeatureList)
Summary of change:	* Allow DescribeFeatureType to reference or redirect to a schema rather than generate a schema document. This can be done using an HTTP 3XX code.
Consequences if not approved:	
Clauses affected:	* 9.3
Additional Documents affected:	
Supporting Documentation:	
Comments:	
Status:	Assigned ⬍
Assigned To:	WFS/FES SWG ⬍
Disposition:	Referred and Posted ⬍