

All Fields marked with \* are mandatory.

<b>Change Request #:</b>	231
<b>Assigned OGC Document #:</b>	12-091
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<b>Document Name/Version:</b>	*OpenGIS Web Feature Service 2.0 Interface Standard (also ISO 19142) / 2.0
<b>OGC Project Document:</b>	*09-025r1
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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<b>Title:</b>	* [WFS 2.0] clarify semantics for not specifying a projection clause <input type="text"/>
<b>Source:</b>	*johannes.echterhoff@igsi.eu
<b>Work item code:</b>	
<b>Category:</b>	* D (Editorial modification) <input type="text"/>
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<b>Reason for change:</b>	* The semantics for not specifying a projection clause are ambiguous.
<b>Summary of change:</b>	* Johannes,  Actually, its (a) since the projection clause is used to enumerate the list of <b>**optional**</b> properties to include in the response. You get the mandatory ones automatically.  This means that if you want the complete state, you have to ask for it explicitly. However, I was never happy with this since it forces a client to parse the schema and determine what the names of the non-mandatory properties are.  I think the processing rules should have been:  1) The projection clause can enumerate the list of feature properties to present in the response.  2) That list can be composed of both mandatory and optional properties.

3) However, if all mandatory properties are not listed in the projection clause the WFS shall augment the list to include all mandatory properties because they are required for validation. So, a WFS client should be prepared to receive more than they asked for.

4) If the projection clause is not specified then the entire known state of the feature is returned. That will include all mandatory properties as well as any optional properties for which the WFS has a value.

So, using this set of rules, if all you want are the mandatory fields only, then you would list them in the projection clause.

I think I will post a CR to get the processing rules changed on the grounds of simplifying the interaction for WFS clients.

Ciao.

On 07/01/2012 10:02 AM, Johannes Echterhoff wrote:

> Hi Peter,  
>

> What is the default behavior of a WFS (2.0) when it receives a GetFeature request that does not use a projection statement in its query? Does the WFS

> (a) return matching features only with their mandatory properties or does it

> (b) return matching features with their complete known state, i.e. also

> optional properties if values are stored for them? Can you point me to the

> place in the WFS 2.0 standard which defines the correct behavior, please?

> I have searched in the WFS 2.0 spec but could not find an answer to this

> question. Apparently if the query contains a projection clause, then only

> the mandatory feature properties together with the explicitly (via the projection clause) mentioned properties are returned, which is reasonable.

> At first glance, (b) appears to be most convenient when a client just wants

> to get complete feature data. However, if (b) is the answer then getting

> features with only their mandatory properties does not seem to be possible,

> though I may be missing something.

> Cheers,  
> Johannes

**Consequences if not approved:**

Let convenient for getting the entire state of a feature using the GetFeature request.






**Clauses affected:**

\*

TBD

**Additional Documents affected:**

**Supporting Documentation:**

<b>Comments:</b> 	
<b>Status:</b> 	Assigned 
<b>Assigned To:</b> 	WFS/FES SWG 
<b>Disposition:</b> 	Referred and Posted 