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Change Request #:	274
Assigned OGC Document #:	13-022
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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: <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="[WFS/FES] Support batch modifications (as opposed to Transactions)"/>
Source: 	*jharrison@thecarbonproject.com
Work item code: 	
Category: 	* <input type="text" value="B (Addition of feature)"/>
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Reason for change: 	* Right now the WFS support transactions or atomic units of work. That means that if 100,000 feature inserts are posted to the WFS then either the entire 100,000 features are successfully inserted or the entire transactions fails and everything is rolled back. There is a requirement to support batch operations which are similar to transactions but have a slightly different semantic. Namely the unit of work does not need to be atomic. So, using the 100,000 feature insert examples again, the WFS would process as many of the inserts as is can and at the end report which one succeeded and which ones failed. Another aspect of the semantic difference between a transaction and a batch is that in a batch operations the server can choose to execute the encapsulated actions in whatever order it wants. This is not the case for transactions; the actions must be executed in the order in which they are presented to the server.

Summary of change: ⓘ	<p>* 1) Either define a new element named "Batch" that is similar to the Transaction element or add an attribute to the Transaction element named "semantic" that lets the server know which semantic to apply ("batch" or "transaction"). If an attribute implementation is chosen then it would optional and its default values would be "transaction" for backward compatibility. 2) Modifications might be required to the current transaction response to handle the slightly different reporting requirements of a batch operation.</p>
Consequences if not approved: ⓘ	<p>It will be very difficult and inefficient to, for example, insert a large number of independent features into a database through the WFS API. Should one insert fail then the entire operation will be undone!</p>
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Clauses affected: ⓘ	<p>* T.B.D. Might require the addition of a new clause.</p>
Additional Documents affected: ⓘ	
Supporting Documentation: ⓘ	
Comments: ⓘ	
Status: ⓘ	Assigned ⌵
Assigned To: ⓘ	WFS/FES SWG ⌵
Disposition: ⓘ	Referred ⌵