Change Request #:	330
Assigned OGC Document #:	13-118
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Document Name/Version:	*WaterML 2.0: Part 1- Timeseries / 2.0
OGC Project Document:	*10-126r3
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:	* 044 - 442 0 545 244 - 442 0 5 4 4 4 5 5 4 4 4 5 6 4 4 4 4 5 6 4 4 4 4
	* [WaterML2.0 SWG] WaterML 2.0: Part 1: wml2:Collection/wml2:parameter Card
Source:	*Environment Canada in consultation with Peter Taylor of CSIRO
Work item code:	
Category:	* F (Critical correction)
Reason for	*
change: <b></b>	Cardinality: At the Collection level, only one instance of a soft-typed parameter is permitted, whereas Monitoring Point, Observation and Timeseries permit multiple occurrences. This is not consistent and was not the intention according to the schema annotation. In the Collection requirements class section there is no paragraph describing the usage of parameter.  Type: Does not reference om:NamedValuePropertyType like the other 4 occurrences of wml2:parameter and sam:parameter.
Summary of	*
change: <b></b> ❷	<pre>In 9.23 Requirements Class: Collection UML Diagram Replace: + parameter :NamedValue [01] By: + parameter :NamedValue [0*] Add a paragraph describing the usage of parameter. In Collection.xsd - wml2:Collection/wml2:parameter Replace attribute:</pre>

<element name="parameter" minOccurs="0" maxOccurs="1"> <annotation> <documentation>A soft typed parameter for extra metadata properties.</documentation> </annotation> maxOccurs="unbounded" Replace local complexType by a reference to om:NamedValuePropertyType Consequences if Cardinality: Makes an automated implementation of this feature impractical. A not approved: kludge would be required to accommodate additional instances as generic metadata. Type: Prevents the use of XLinks at the parameter level (in addition to the om:name level) unlike the other 4 instances. Clauses affected: 9.23 Collection.xsd Additional **Documents** affected: **Supporting** Documentation: Comments: CR reviewed and approved by the author, Peter Taylor. Maybe this is not permissible under the OGC rules for generating XML schemas from UML, but I would assert that a schema design best practice should be the global declaration of all elements so that they  $\ensuremath{\mathsf{may}}$  be referenced wherever required throughout the namespace (aka Garden of Eden style). This would eliminate the risk of such typing inconsistencies which are almost inevitable with multiple local declarations. Status: Assigned \* Assigned To: WaterML2.0SWG Disposition: \* Referred