### Change Request

**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

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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 Revision Number that you are revising here: [ ]

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**Title:** [WaterML2.0 SWG] WaterML 2.0: Part 1: wml2:Collection/wml2:parameter Cardin

**Source:** *Environment Canada in consultation with Peter Taylor of CSIRO

**Work item code:**

**Category:** *F (Critical correction)

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**Reason for change:**

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.

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**Summary of change:**

In 9.23 Requirements Class: Collection UML Diagram

Replace:

+ parameter :NamedValue [0..1]

By:

+ parameter :NamedValue [0..*]

Add a paragraph describing the usage of parameter.

In Collection.xsd - wml2:Collection/wml2:parameter

Replace attribute:
<element name="parameter" minOccurs="0" maxOccurs="1">
<annotation>
<documentation>A soft typed parameter for extra metadata properties.</documentation>
</annotation>
By:
maxOccurs="unbounded"
Replace local complexType by a reference to om:NamedValuePropertyType

**Consequences if not approved:**

Cardinality:
Makes an automated implementation of this feature impractical. A 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:**

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 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