All Fields marked with * are mandatory.

| | |
|---|---|
| **Change Request #:** | **249** |
| **Assigned OGC Document #:** | **12-140** |
| **Name:** | *Nathan Potter |
| **Organization:** | *OPeNDAP Inc. |
| **Email:** | *ndp@opendap.org |
| **Document Name/Version:** | *WCS 2.0 Interface Standard- Core: Corrigendum / 2.0.1 |
| **OGC Project Document:** | *09-110r4 |

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:** ⓘ | * <br> {WCS SWG] Type change for wcs:Dimension |
| **Source:** ⓘ | *OGC |
| **Work item code:** ⓘ | |
| **Category:** ⓘ | * C (Functional modification of feature) ⇕ |

| | |
|---|---|
| **Reason for change:** ⓘ | * <br><br> The definition of the wcs:Domain type to NCNAME doesn't allow URI/URL/URN values to be used as values. It is my understanding that it was the authors (Baumann and Meissl) intent was to allow this. |
| **Summary of change:** ⓘ | * <br><br> Change the type of wcs:Dimension to URI. |
| **Consequences if not approved:** ⓘ | Will result in a lack of specificity in the naming of coordinate dimensions. Lack of URI representation will increase semantic confusion. |

| | |
|---|---|
| **Clauses affected:** ⑨ | \* <br><br> 09-110r4 8.4 GetCoverage operation <br> 09-110r4  Table 17 <br> 09-110r4  Figure 9 <br> 09-110r4  A.1.30 |
| **Additional Documents affected:** ⑨ | Associated schema documents would need to be changed. http://schemas.opengis.net /wcs/2.0/wcsGetCoverage.xsd http://schemas.opengis.net/wcs/2.0 /wcsDescribeCoverage.xsd This could also be achieved by changing OGC 07-036 10.1.3.3 and it's schema http://schemas.opengis.net/gml/3.2.1/geometryBasic0d1d.xsd |
| **Supporting Documentation:** ⑨ | |
| **Comments:** ⑨ | 09-110r4  A.1.30 explicitly associates the values of wcs:Dimension with the content of gml:SRSInformationGroup. This dependency forces the type of wcs:Dimension to be NCNAME. <br><br> This gml:SRSInformationGroup is also used in the definition of the gml:boundedBy element in the wcs:CoverageDescriptionType ( inherited from  gml:AbstractFeatureType). <br><br> Interestingly the gml:Grid object is defined to support both: It allows for a single gml:axisLabels element which is of type gml:NCNameList but also for an unlimited number of gml:axisName elements whose type is simply string. <br><br> Maybe simply changing wcs:Dimension so that it is defined in terms of the gml:axisName elements in the gml:domainSet would resolve this with a minimum of pain? <br><br> Certainly changing the type of wcs:Dimension will have impacts in a number of places in the specification, at least if the specification is to remain internally consistent. And I am afraid that I have not fully grasped the extent of the change represented by this request. |
| **Status:** ⑨ | Assigned ⬍ |
| **Assigned To:** ⑨ | WCS SWG ⬍ |
| **Disposition:** ⑨ | Referred and Posted ⬍ |