<table>
<thead>
<tr>
<th>Change Request #</th>
<th>302</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assigned OGC Document #:</td>
<td>13-069</td>
</tr>
<tr>
<td>Name:</td>
<td>*David Stuebe</td>
</tr>
<tr>
<td>Organization:</td>
<td>*RPS-ASA</td>
</tr>
<tr>
<td>Email:</td>
<td>*<a href="mailto:dstuebe@asascience.com">dstuebe@asascience.com</a></td>
</tr>
<tr>
<td>Document Name/Version:</td>
<td>*SWE Common Data Model Encoding Standard / 2.0</td>
</tr>
<tr>
<td>OGC Project Document:</td>
<td>*08-094r1</td>
</tr>
</tbody>
</table>

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: [ ]

---

**Title:** DataChoice Cardinality

**Source:** IOOSTech working group

**Work item code:**

**Category:**

* C (Functional modification of feature)

---

**Reason for change:**

There is no need to require a cardinality of two or more (2*) on the elements of a DataChoice field. It places an unnecessary constraint on the data model which requires a different structure for degenerate cases of a single item or the use of a dummy item to meet the requirements.

**Summary of change:**

Make the minOccurs attribute of the sequence element named item equal to zero.

**Consequences if not approved:**

Dummy data choice items will be used to meet a spec requirement that serves no purpose.

**Clauses affected:**

8.3.1 ... This element contains a list of (at least two) “item” property elements, each with a “name” attribute and containing the data component element that defines the field.
The IOOS SOS 1.0 templates are affected by this issue. See examples here: https://code.google.com/p/ioostech/source/browse/#svn%2Ftrunk%2Ftemplates%2FMilestone1.0 The single station, single property example is included purely due to this issue as it requires the use of a dummy item.

**Additional Documents affected:**

The IOOS SOS 1.0 templates are affected by this issue. See examples here: https://code.google.com/p/ioostech/source/browse/#svn%2Ftrunk%2Ftemplates%2FMilestone1.0 The single station, single property example is included purely due to this issue as it requires the use of a dummy item.

**Supporting Documentation:**

Included a snippet of the current and suggested xsd.

**Comments:**

Please, please change this.

**Status:**

Assigned

**Assigned To:**

SWECommonSWG (archived)

**Disposition:**

Referred