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OpenGIS[®] SensorML Encoding Standard, version 1.0 Schema - Corrigendum 1

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Warning

This document is a Corrigendum to an adopted OpenGIS Standard. It is an official position of the OGC membership.

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i. Preface

This document is a corrigendum for OGC Document SensorML Version 1.0 schema within in the “swe” namespace (SWE Common).

ii. Document terms and definitions

This document uses the terms defined in Subclause 5.3 of [OGC 05-008]. In particular, the word “shall” (not “must”) is the verb form used to indicate a requirement to be strictly followed to conform to this specification.

iii. Document contributor contact points

All questions regarding this document should be directed to the editor or the contributors:

Name	Organization
Simon Cox	CSIRO
Mike Botts	UAH

iv. Revision history

Date	Release	Editor	Primary clauses modified	Description
9/12/07	1	Carl Reed	See changes below	Schema changes
10/25/07	2	Mike Botts	See changes below	Added two additional schema changes; added versioning info; cleaned up document;

v. Changes to OGC Specifications

The previously approved OGC[®] Specifications do not need changes to accommodate the technical contents of this document.

Foreword

This document provides the details for a corrigendum for the existing OGC[®] Standard for SensorML version 1.0 and does not modify that standard. The current OGC Standard that this document provides corrigendum notes for is 07-000.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The OGC shall not be held responsible for identifying any or all such patent rights.

Recipients of this document are requested to submit, with their comments, notification of any relevant patent claims or other intellectual property rights of which they may be aware that might be infringed by any implementation of the specification set forth in this document, and to provide supporting documentation.

Introduction

This document defines the corrigendum change notes for SensorML version 1.0. This document was approved by the OGC membership on June 23, 2007. As a result of the Corrigendum process, there were edits and enhancements made to this standard to correct typographic errors, schema errors, or some deficiency that prevented proper use of this standard. This document provides the details of those edits, deficiency corrections, and other corrects. It also documents those items that have been deprecated.

SensorML Version 1.0 Corrigendum 1

1 Scope

The primary focus of SensorML is to define processes and processing components associated with the measurement and post-measurement transformation of observations. The SensorML document also defines the SWE Common data types used throughout the SWE encodings and services. This corrigendum corrects sections of the SWE Common schema.

2 Corrigendum Description

The following are the schema changes for Corrigendum “1” for SensorML version 1.0.

2.1 Changes to sweCommon: aggregateTypes.xsd

2.1.1 “within” definition of DataValuePropertyType

insert

(line 138) <xs:attribute name="recordCount" type="xs:positiveInteger"/>

2.1.2 within definition of DataComponentPropertyType

Correct documentation element to read

(line 223) <xs:documentation>Complex Type for all properties taking the AnyData Group with a "name" key</xs:documentation>

2.1.3 within aggregateTypes.xsd

(line 230) *rename* SimpleDataPropertyType to AnyDataPropertyType

2.1.4 within definition of AnyDataPropertyType

Correct documentation element to read

(line 232) <xs:documentation>Complex Type for all properties taking the AnyData Group</xs:documentation>

2.1.5 within definition of dataArrayType

(line 245) set min occurs of “values” element to 0

2.2 Changes to sweCommon: basicTypes.xsd

1. *Remove* TypedValueType definition
2. *Remove* TypedValue declaration
3. *Remove* TypedValuePropertyType definition
4. *Remove* TypedValueListType definition
5. *Remove* TypedValueList declaration
6. *Remove* TypedValueListPropertyType definition

2.3 Changes to sweCommon: phenomenon.xsd

Change

<include schemaLocation="./basicTypes.xsd"/>

to

<include schemaLocation="./aggregateTypes.xsd"/>

2.3.1 Within ConstrainedPhenomenonType definition

Change

(line 62) <element name="singleConstraint" type="swe:TypedValuePropertyType"
minOccurs="0" maxOccurs="unbounded">

to

<element name="singleConstraint" type="swe:AnyDataPropertyType"
minOccurs="0" maxOccurs="unbounded">

2.3.2 Within PhenomenonSeriesType definition

Change

(line 142) `<element name="constraintList" type="swe:TypedValueListPropertyType" maxOccurs="unbounded">`

to

`<element name="constraintList" type="swe:DataArrayPropertyType" maxOccurs="unbounded">`

2.4 Changes to sweCommon: xmlData.xsd

Remove second sentence of schema-documentation (i.e. "A schema for the description of the record is given in recordType.xsd")

2.5 Changes to SensorML: base.xsd

(line 460) added optional "name" attribute to "capabilities" element

(line 465) added optional "name" attribute to "characteristics" element

2.6 Changes to SWE Common : all schema

change namespace from 1.0 to <http://www.opengis.net/swe/1.0.1>

change version number from 1.0 to 1.0.1

update copyright documentation

2.7 Changes to SensorML : all schema

change namespace from 1.0 to <http://www.opengis.net/sensorML/1.0.1>

change version number to 1.0.1

change imports of SWE Common to relatively use:
<http://schemas.opengis.net/sweCommon/1.0.1/>

update copyright documentation