



## aseXML Schema Change Request

<b>Document ID</b>	31
<b>Title</b>	NonZeroLengthString
<b>Change Type</b>	Enhancement
<b>Date</b>	11/4/2007
<b>Prepared By</b>	D Field

---

---

**Document Control**

<b>Version</b>	<b>Date</b>	<b>Author</b>	<b>Summary of Change</b>
1.0	11/4/2007	D Field	Initial draft
1.1	27/04/2007	W Lee	Testing the r21 schema with simpleType NonZeroLengthString

---

## Contents

Document Control.....	2
Contents.....	3
Tables.....	4
Figures.....	5
Glossary.....	6
1. Change Proposal.....	7
1.1. Description of the proposed change.....	7
1.1.1 First change description.....	7
1.2. Reason for Change.....	7
1.3. Supplied Documents.....	7
1.3.1 Business process document.....	7
1.3.2 Other.....	7
1.4. Baseline Schema.....	7
2. Approval Proposal.....	8
2.1. Proposed Change #1.....	8
2.1.1 Draft schema.....	8
2.1.2 Change log.....	8
2.1.3 Schema change description.....	8
2.1.4 Impact Summary.....	9
2.1.5 Developer Test.....	10
3. Proposal Assessment.....	11
3.1. Test.....	11
3.1.1 Test Platforms.....	11
3.1.2 Test Cases.....	11
3.1.3 Test Results.....	11
3.2. Conformance Report.....	11
4. Issue Register.....	12
4.1. Status of Issues.....	12
5. Resolution.....	13
5.1. ASWG Endorsement.....	13

## Tables

Table 1-1, Proposed Changes.....	7
Table 2-1 Change Log .....	8
Table 2-2, Impact Summary.....	9
Table 3-1, Change Proposal Conformance Details .....	11
Table 4-1, Issues list .....	12
Table 5-1, ASWG Vote Results .....	13

---

## Figures

Nil

---

## Glossary

Abbreviation	Description

---

## 1. Change Proposal

This Change Proposal adds a new simple type – NonZeroLengthString – to be used as a base for all string types that do not have minimum facets or enumerations.

### 1.1. Description of the proposed change

The proposed changes are listed in the following table.

Item#	Change Description	Change Type <sup>1</sup>
1	Add a new type definition of NonZeroLengthString	Enhancement

Table 1-1, Proposed Changes

#### 1.1.1 First change description

Add a new simple type definition to be used as a base for string types that do not have minimum length facets or enumerations. This is a technical change only, that will not have any impact to instance documents. The new type will only be used for new type definitions, or will supplement existing definitions that already have the same constraints.

### 1.2. Reason for Change

The default 'string' primitive type in schemas allows for an empty string element to be considered valid if there is no restriction placed on the minimum length. Sending empty elements is considered bad practice, so the aseXML Guidelines are being amended to state that strings must have a 'minLength' value of 1, and 'whiteSpace' value of collapse.

The creation and use of a type that already has these constraints will ensure consistency in future string type definitions.

### 1.3. Supplied Documents

#### 1.3.1 Business process document

Technical change only. No Business Process documentation

#### 1.3.2 Other

aseXML Guidelines Change No 12 describes the change to the aseXML Guidelines

### 1.4. Baseline Schema

The schema used as a basis for this proposal is r20

---

<sup>1</sup> Change Type can be one of

- New
- Enhancement, or
- Bug Fix

---

## 2. Approval Proposal

### 2.1. Proposed Change #1<sup>2</sup>

#### 2.1.1 Draft schema

Draft schema r21 has been created with this change. Change has been incorporated along with proposed HSM changes.

#### 2.1.2 Change log

The following changes have been implemented in this draft:

Chg #	Item #	Description of change	Filename
1	1	Add simpleType NonZeroLengthString	Common_r19.xsd

Table 2-1 Change Log

#### 2.1.3 Schema change description

Change adds new simple type definition NonZeroLengthString to Common\*.xsd file

##### 2.1.3.1 Common

- NonZeroLengthString type definition added

```
<xsd:simpleType name="NonZeroLengthString">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="1"/>
    <xsd:whiteSpace value="collapse"/>
  </xsd:restriction>
</xsd:simpleType>
```

---

<sup>2</sup> This section may be repeated if more than one option is considered



2.1.4 Impact Summary

This table identifies the files, transactions and versioned types that are potentially impacted as the result of these changes, where:

- o Modified types - is a full list of types changed by this Change Request
- o Derived types – is a list of any types that are derived from a modified type, and are therefore also modified by default
- o Versioned types affected – is a list of all versioned types that will need to have the version attribute updated as a result of this Change Request
- o Transactions potentially affected – is a list of all transactions that contain a modified type, either directly or via a type substitution
- o Schema files affected – is a list of schema files that will be changed in some way as a result of this Change Request.

Modified types	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
No modified types	-	-	-	-

Table 2-2, Impact Summary

## 2.1.5 Developer Test

### 2.1.5.1 Test Platforms

The new schema has been tested using the following platforms as advised by ASWG:

- XMLSpy 2007
- MSXML4 SP2
- Xerces 1.4.4 and 2.2.1

### 2.1.5.2 Test Cases

Change has been tested using the supplied HSM sample files.

- HSMMonitorDataCompressed\_Response.xml
- HSMMonitorData\_Request.xml
- HSMMonitorData\_Response.xml
- HSMMonitorsCapabilities\_Request.xml
- HSMMonitorsCapabilities\_Response.xml
- HSMMonitorsStatusAll\_Request.xml
- HSMMonitorsStatus\_Request.xml
- HSMMonitorsStatus\_Response.xml
- HSMTriggeredDataCompressed\_Notification.xml
- HSMTriggeredData\_Notification.xml

### 3. Proposal Assessment

#### 3.1. Test

The ASWG ensures that all recommended parsers on relevant platforms can successfully validate the proposed schema.

##### 3.1.1 Test Platforms

Supplied samples have been tested using the following parsers:

- o MSXML 4.0 SP1
- o Xerces 1.4.1
- o Xerces 2.2.1
- o XMLSpy 2004

##### 3.1.2 Test Cases

As per section 2.1.5.2, and in addition with the modified contents of HSMMonitorData\_Request.xml where the MonitorID is being set to the following values

Case	Node Value	Description
1	<MonitorID> </MonitorID>	Single space in between start and end tag.
2	<MonitorID> </MonitorID>	Single tab in between start and end tag.
3	<MonitorID> </MonitorID>	Single CRLF in between start and end tag.

##### 3.1.3 Test Results

All OK.

#### 3.2. Conformance Report

The ASWG completes the conformance report validating each proposed new schema file against the published aseXML guidelines.

Schema Filename	Impacted by Item #	Conformance Details
aseXML_r21.xsd	1	As part of this change, the guideline has been altered for this change request, and therefore it is conformed with the guideline.

Table 3-1, Change Proposal Conformance Details

---

## 4. Issue Register

This section describes any issues that have arisen and any modifications that are made to the original proposal during the Change Process

### 4.1. Status of Issues

Issue#	Item#	Description and Discussion	Status <sup>3</sup>	Resolution
1				

Table 4-1, Issues list

---

<sup>3</sup> Either 'Open' or 'Closed'

## 5. Resolution

The ASWG votes for endorsement of the options identified in section 2, and the voting results are forwarded to NEMMCO for approval. When 75% of those ASWG members who voted endorse a specific option, this represents an ASWG Recommendation for that option. NEMMCO will not reject an ASWG Recommendation without first consulting with the ASWG.

### 5.1. ASWG Endorsement

The results of the ASWG vote are as follows:

Date of Vote: ??/??/????

Option	# Votes	% Vote
Option 1 (section 2.1)		
Option 2 (section 2.2)		
Option # (section 2.#)		
Abstained		
Total Members Present		

Table 5-1, ASWG Vote Results