# Schema Change Request

| | |
|---|---|
| Document ID | **29** |
| Change Type | Bug fixes |
| Title | MSATS schema documentation and bug fix |
| Date | 11 August 2006 |
| Prepared By | Nandkumar Gaikwad, Nada Reinprecht |
| Priority | |

## Document Control

| Version | Date | Author | Summary of Change |
|---------|------|--------|-------------------|
| 1.0 | 11 August 06 | Nandkumar Gaikwad Nada Reinprecht | Approval proposal |
| 2.0 | 21 August 06 | Nada Reinprecht | Schema description included |
| 3.0 | 6 Sept 06 | Andrew Screen | Review |
| 4.0 | 18 Sep 2006 | Darren Field | Final version for release |
| | | | |

## Document Status

# Contents

Tables

# 1. Change Proposal

This Change Proposal contains the following:

- Request for MSATS schema bug fixes.

## 1.1. Description of the proposed change

The proposed changes are listed in the following table.

Table 1-1, Proposed Changes

| Item# | Change Description | Change Type |
|---|---|---|
| **Business Changes** | | |
| 1. | Replace DataRangeReportParameters with DateRangeReportParameters | Bug Fix |
| 2. | Update documentation for DateRangeReportParameters,; Instead of "Report Name – Security" should be "Report Name – C8" | Bug Fix |
| 3. | Correct documentation for the following types: MSATSCodeValueType, MSATSCodeValue, MSATSCodeValueDescription and MSATSCodeValuesRow | Bug Fix |
| 4. | Add documentation for the following elements in CATSNotification: JurisdictionCode, NMIClassificationCode and NMIStatus. | Bug Fix |

## 1.2. Reason for Change

MSATS schema bug fixes.

## 1.3. Baseline Schema

The schema used as a basis for this proposal is aseXML_r19.

# 2. Approval Proposal

## 2.1. Draft Schema

Draft schema r20 is supplied with CR#29.

## 2.2. Change log

The following changes have been implemented in this draft:

| Chg # | Item # | Description of change | Schema File |
|---|---|---|---|
| 1 | All | Namespace changed to r20 | aseXML |
| 2 | All | Version number r20 included | Event |
| 3 | 1 | DataRangeReportParameters replaced with DateRangeReportParameters | CATSReports |
| 4 | 1 | DateRangeReportParameters version attribute updated to r20 | CATSReports; |
| 5 | 2 | DateRangeReportParameters documentation changed | CATSReports; |
| 6 | 3 | Documentation for the following types in CATSTableReplication corrected: MSATSCodeValueType, MSATSCodeValue, MSATSCodeValueDescription, MSATSCodeValuesRow. | CATSTableReplication |
| 7 | 4 | The following elements of the CATSNotification transaction are documented:<br><br>• JurisdictionCode:"This is the what the jurisdiction code would be after after CR completes (if the jurisdiction code is being changed in the CR)"<br><br>• NMIClassificationCode: "This is the what the NMI Classification code would be after after CR completes (if the NMI Classification code is being changed in the CR)"<br><br>• NMIStatus: "Will be populated only in notifications of CRs which are for transfer of de-energised NMIs. This would be the current value of the NMI Classification code. It could be different than what the NMI Classification code would be after CR completes (if the NMI Classification code is also being changed in the CR - which currently is not allowed in tranfer CRs)" | CustomerTransfer |

Table 2-1 Change Log

## 2.3. Schema change description

### 2.3.1 CATS Reports

~~<xsd:complexType name="DataRangeReportParameters">~~

~~<xsd:annotation>~~

~~<xsd:documentation> Purpose   Parameters for a CATS Security Report~~

~~Report Name   Security </xsd:documentation>~~

~~</xsd:annotation>~~

~~<xsd:complexContent>~~

~~<xsd:extension base="BaseReportParameters">~~

~~<xsd:sequence>~~

```
                              <xsd:element name="FromDate" type="xsd:dateTime"/>
                              <xsd:element name="ToDate" type="xsd:dateTime"/>
                    </xsd:sequence>
                    <xsd:attribute name="version" type="r19"/>
            </xsd:extension>
      </xsd:complexContent>
</xsd:complexType>
- <xsd:complexType name="DateRangeReportParameters">
      - <xsd:annotation>
            - <xsd:documentation> Purpose - Parameters for a CATS Security Report
            Report Name - C8 </xsd:documentation>
      </xsd:annotation>
      - <xsd:complexContent>
            - <xsd:extension base="BaseReportParameters">
                  - <xsd:sequence>
                              <xsd:element name="FromDate" type="xsd:dateTime"/>
                              <xsd:element name="ToDate" type="xsd:dateTime"/>
                    </xsd:sequence>
                    <xsd:attribute name="version" type="r20"/>
            </xsd:extension>
      </xsd:complexContent>
</xsd:complexType>
```

### 2.3.2  CATSTableReplication

```
<xsd:simpleType name="MSATSCodeValueType">
      - <xsd:annotation>
            - <xsd:documentation> MSATS Data Model Column - ObjRuleDesc
            MSATS Data Model Column - CodeType </xsd:documentation>
      </xsd:annotation>
</xsd:simpleType>
- <xsd:simpleType name="MSATSCodeValue">
      - <xsd:annotation>
            - <xsd:documentation> MSATS Data Model Column - ObjRuleDesc
            MSATS Data Model Column - CodeValue </xsd:documentation>
      </xsd:annotation>
</xsd:simpleType>
- <xsd:simpleType name="MSATSCodeValueDescription">
      - <xsd:annotation>
```

      - *<xsd:documentation>* ~~MSATS Data Model Column - ObjRuleDesc~~ MSATS Data Model Column - CodeValueDesc *</xsd:documentation>*

   *</xsd:annotation>*

*</xsd:simpleType>*


*<xsd:complexType* name="MSATSCodeValuesRow">

    - *<xsd:annotation>*

       - *<xsd:documentation>* ~~Purpose - Row of the CATSChangeStatusCodes table MSATS Data Model Table - CATS_CR_Status_Codes Replication Table Name - CATSChangeStatusCodes~~ Purpose - Row of the MSATSCodeValues table MSATS Data Model Table - MSATS_CODE_VALUES Replication Table Name - MSATSCodeValues *</xsd:documentation>*

    - *</xsd:annotation>*

*</xsd:complexType>*

### 2.3.3 CustomerTransfer

*<xsd:complexType* name="CATSNotification">

    - *<xsd:sequence>*

       - *<xsd:element* name="Role" type="RoleIdentifier">

       - *<xsd:element* type="JurisdictionCode" name="JurisdictionCode" minOccurs="0">

           - <xsd:annotation>

               - <xsd:documentation> This is what the Jurisdiction code would be after CR completes (if the jurisdiction code is being changed in the CR)</xsd:documentation>

           </xsd:annotation>

       *</xsd:element>*

       - *<xsd:element* type="NMIClassificationCode" minOccurs="0" name="NMIClassificationCode">

           - <xsd:annotation>

               - <xsd:documentation> This is what the NMI Classification code would be after CR completes (if the NMI Classification code is being changed in the CR)</xsd:documentation>

           </xsd:annotation>

       *</xsd:element>*

       - *<xsd:element* name="NMIStatus" type="NMIStatusCode" minOccurs="0">

           - <xsd:annotation>

- <xsd:documentation> Will be populated only in notifications of CRs which are for transfer of de-energised NMIs. This would be the current value of the NMI Status code. It could be different than what the NMI Status code would be after CR completes (if the NMI Status code is also being changed in the CR - which currently is not allowed in transfer CRs) </xsd:documentation>
</xsd:annotation>
*</xsd:element>*
*</xsd:sequence>*
*</xsd:complexType>*

## 2.4.  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 |
|---|---|---|---|---|
| DataRangeReportParameters changed to DateRangeReportParameters | | Changed to r20 | Report Response | CATS_Reports.xsd |

Table 2-2, Imapct Summary

## 2.5.  Developer Test

### 2.5.1  Test Platforms

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

- o   XMLSpy 2004
- o   MSXML4 SP1
- o   Xerces 1.4.4 and 2.2.1

### 2.5.2  Test Cases

<List any sample files provided>

# 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  - OK
- o Xerces 1.4.1  - OK
- o Xerces 2.2.1  (Can't get parser to work correctly, known problems)
- o XMLSpy 2006 – OK

### 3.1.2 Test Cases

All xml sample docs have been validated using the above parsers.

### 3.1.3 Test Results

Sample files were created from the R19 MSATS samples.  Apart from the update to schema versions the only change required was to the CATS security report to handle the correct xsi type for the changed type.  Samples have been included with this report. All xml sample docs have been validated as indicated using the above parsers.

## 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_r20.xsd | 1 | Conforms |
| Event_r20.xsd | 2 | Conforms |
| CATSReports_r20.xsd | 3,4,5 | Conforms |
| CATSTableReplication_r20.xsd | 6 | Conforms |
| CustomerTransfer | 7 | Conforms |

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# | Description and Discussion | Status | Resolution |
|--------|---------------------------|--------|------------|
| 1 | | | |

Table 4-1, Issues list

# 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.  Draft Schema ASWG Vote

The results of the ASWG vote for the draft schema to be released are as follows:

Date of Vote:  18/8/2006

| Option | # Votes | % Vote |
|---|---|---|
| Option 1 (section 2.1) | 6 | 85% |
| Abstained[1] | 1 | 15% |
| Total Members Present | 7 | 100% |

Table 5-1, ASWG Vote Results for Draft Schema

## 5.2.  Final Schema ASWG Vote

The results of the ASWG vote for the final schema to be released are as follows:

Date of Vote:  15/9/2006

| Option | # Votes | % Vote |
|---|---|---|
| Option 1 (section 2.1) | 5 | 83% |
| Abstained[2] | 1 | 17% |
| Total Members Present | 6 | 100% |

Table 5-2, ASWG Vote Results for Draft Schema

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[1] Member abstained due to limited knowledge of aseXML at this point in time

[2] Member abstained due to limited knowledge of aseXML at this point in time.