Schema Change Request

Document ID 22

Change Type New Transactions and enhancements

Title Network Outage Scheduler response transactions

Date

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Priority

Notes

Document Control

Version	Date	Author	Summary of Change	
1.0	24 Septr 2004	Andrew Illing	Change proposal	
2.0	04 Oct 2004	Nada Reinprecht	Update	
3.0	20 Oct 2004	Nada Reinprecht	Included the NOS process diagram	
4.0	15 Nov 2004	Brenton Worley	Completed schema review	
5.0	19 Nov 2004	Nada Reinprecht	Updated document in accordance to comments Included NOSInfotype description Included the sample files	
6.0	23 Nov 2004	Nada Reinprecht	Change log table populated and the conformance table extended with the transactions file	

Document Status

Approved for release

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Glossary

Abbreviation	Description	
TNSP	Transmission Network Service Provider	
NOS	Network Outage Scheduler	

1. Change Proposal

This Change Proposal contains the request for inclusion of additional Network Outage Scheduler (NOS) transactions in the aseXML schema and enhancement of the existing transactions. These transactions will extend the functionality introduced in r15 to exchange the definition of power network equipment, outage bookings and outage booking assessment information between the Transmission Network Providers (TNSPs) and NEMMCO.

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 (Business Changes					
1	Allow TNSP to request Equipment information and NEMMCO to respond	New				
2	Add/update Equipment type to accommodate provision of NEMMCO generated data	Enhancement				
3	Allow TNSP to request Booking information and NEMMCO to respond	New				
4	Add/update Booking type to accommodate provision of NEMMCO generated data	Enhancement				
5	Allow NEMMCO to send Outage Assessment information to TNSP	New				

1.1.1 NOS Process diagram

Figure 1-1 outlines the network outage scheduler processes and relates the aseXML transactions to these processes.

1.1.2 TNSP Equipment Information Request and NEMMCO response

The TNSP requests equipment information from the NOS equipment database via a NOSEquipmentQuery transaction. The TNSP will provide a list of company equipment identifiers which uniquely identify the equipment required. Where equipment requested belongs to another TNSP a TNSP identifier is also supplied along with the company equipment identifier. The TNSP identifier is the TNSPs registered B2B identifier.

A successful request will result in NEMMCO generating a NOSInfoResponse transaction that includes the current information associated with the requested equipment. In the case of a request failure, NOS will send a generic aseXML transaction acknowledgement with an error event containing the identifiers of the requested Equipment responsible for the failure. For the case of a partially successful request, a NOSInfoResponse will also be generated for the successful Equipment information requests.

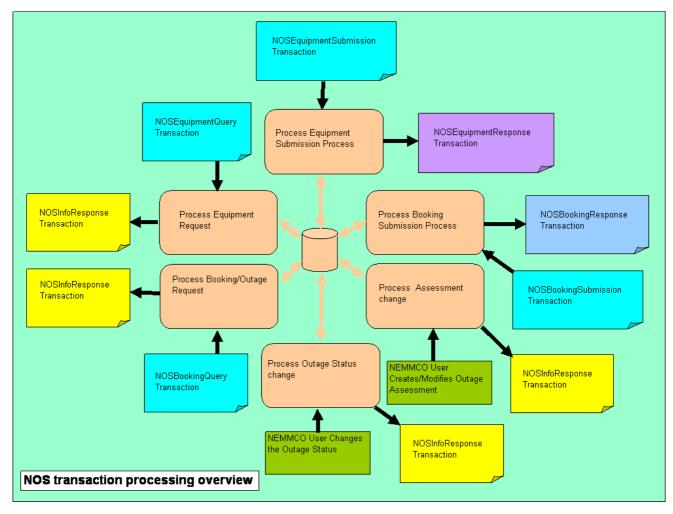


Figure 1-1 NOS Process diagram

1.1.3 Add/update to Equipment

TNSP submitted equipment has additional information appended by NEMMCO during the validation process. To allow this information to be returned to the TNSP in a NOSInfoResponse, the additional elements have been added to relevant complex types.

1.1.4 TNSP Booking Information Request and NEMMCO response

The TNSP requests Booking information from the NOS database via a NOSBookingQuery transaction. When a Booking contains multiple Outage Periods, the request may be outage period specific. The Booking information requested includes the TNSP Booking submission details and/or NEMMCO Assessment Information for the Booking.

The TNSP will provide a list of company booking identifiers which uniquely identify the Bookings for which information is required. For outage period specific requests, a company outage identifier is also provided. If the Booking requested belongs to another TNSP a TNSP identifier is also supplied along with the company booking identifier. The TNSP identifier is the TNSPs registered B2B identifier.

A successful request will result in NEMMCO generating a NOSInfoResponse transaction that includes the current information associated with the requested Booking(s). It should be noted that where the Booking requested has associated equipment from another TNSP, the NEMMCO response will include the equipment details for the equipment associated with another TNSP. (This is required because the requesting TNSP may not have another TNSP's equipment information in its own database.)

In the case of a request failure, NOS will send a generic aseXML transaction acknowledgement with a error event containing the identifiers of the requested Bookings/Outage Periods responsible for the failure. For the case of a partially successful request, a NOSInfoResponse will also be generated for the successful Bookings/Outage Periods information requests.

1.1.5 Add/updates to Booking

Relevant Booking complex types have been modified to allow the TNSP owner of the Booking and additional user information to be returned in a NOSInfoResponse.

1.1.6 Transfer of NEMMCO Assessment information to TNSP

NEMMCO appends Assessment information to submitted Bookings on an Outage Period basis. The occurrence of a change in Outage Assessment information on the NEMMCO system will result in NEMMCO generating an unsolicited NOSInfoResponse transaction that includes the change. The NOSInfoResponse transaction will be sent to the TNSP owner of the Booking.

1.2. Reason for Change

These changes are required to enable a TNSP to request and receive Booking Submission & Assessment information from NEMMCO sufficient to upload into their own systems.

1.3. Supplied Documents

1.3.1 Business process document

1.3.2 Data model

1.4. Impact assessments on Participant's systems

1.4.1 Business Impact

The Booking/Equipment submission & query transactions will be sent between NEMMCO and specific Transmission Network Service Providers (TNSPs). Consequently, the TNSPs and NEMMCO will be only affected parties. The introduction of these transactions will further enable batch processing and allow TNSP outage systems to be kept up to date with the NEMMCO outage system in terms of both Booking and Assessment information.

The end result is reduced time and effort required by TNSPs to perform the outage scheduling function through the elimination of double handling of data and ability to utilize their own systems and interfaces.

1.4.2 Technical Impact

NEMMCO and TNSPs will need to build their gateways to send, receive and process the aseXML transactions.

1.5. Affected Configuration Items (Baseline)

1.5.1 Schema

As per ASWG decision, the baseline schema for these transactions is aseXML_r15

2. Approval Proposal

2.1. Description of the proposed approval

The table below defines the action in relation to each change item as listed in the Description of the proposed change section.

Table 2-1, Proposed Change Approval

Item #	Proposal Notes	Category	Action
Business	Changes		
1	Allow TNSP to request Equipment information and NEMMCO to respond	New	
2	Add/update Equipment type to accommodate provision of NEMMCO generated data	Enhancement	
3	Allow TNSP to request Booking information and NEMMCO to respond	New	
4	Add/update Booking type to accommodate provision of NEMMCO generated data	Enhancement	
5	Allow NEMMCO to send Outage Assessment information to TNSP	New	

2.2. Configuration Items (New Baseline)

2.2.1 Draft schema

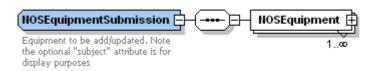
Draft schema aseXML_r16 attached.

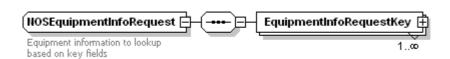
2.2.2 Schema change description

The schema changes are isolated to these files: Transaction, NOSEquipment, NOSBooking and NOSCommon. A new schema, NOSAssessment is also defined.

2.2.2.1 Changes NOSEQUIPMENT

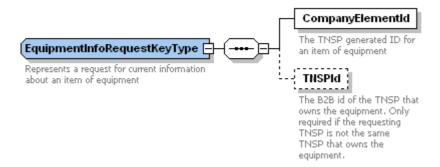
In NOSEquipment_r15.xsd, the NOSEquipmentSubmission transaction only supports the TNSP <u>submission of</u> equipment information <u>to</u> NEMMCO. In order to also support TNSP <u>requests for</u> Equipment information from NOSEquipmentQuery transaction has been developed.





2.2.2.2 New EQUIPMENTINFOREQUESTKEY

New complex type EQUIPMENTINFOREQUESTKEY has been defined to allow a TNSP to define the items of equipment for which information is requested.



2.2.2.3 Change EQUIPMENTBASETYPE

Add NEMMCOName

All equipment items in NOS have a "standard" NEMMCO name, appended to the information provided by a TNSP. This NEMMCONAME element has been added to the EquipmentBaseType to allow it to be provided to the TNSP as part of a NEMMCO response to an equipment information request. This element is optional because it is not required for equipment submission.

Add ValidatedBv

Equipment items, once submitted are validated by a NEMMCOUser. This is a double check on top of the automated validation. The VALIDATEDBY element has been added to the EquipmentBaseType to allow the NEMMCO user name be provided to the TNSP as part of a NEMMCO response to an equipment information request. This element is optional because it is not required for equipment submission.

Add TNSPID

The TNSP may request equipment information for equipment belonging to another TNSP. The TNSPID element has been added to the EquipmentBaseType to allow it to be provided to the TNSP as part of a NEMMCO response to an equipment information request. This element is optional because it is not required for equipment submission. The TNSP identifier is the TNSPs registered B2B identifier.

Set attribute NOSOperation type to "optional".

Change NOSOperationType attribute from "required" to "optional". This attribute is used to indicate whether the information is new, being updated or deleted. (NOSOperationType values, SUBMIT, RESUBMIT & WITHDRAW) If the operation type is not set then the information being supplied has not changed. The change is to support a response to a TNSP request where equipment has not changed.

2.2.2.4 Change NOSStationType

Add NEMMCOAbbrev.

All stations in NOS have a NEMMCO abbreviation appended by NEMMCO to the information provided by a TNSP. This element has been added to the NOSStationType to allow it to be provided to the TNSP as part of a NEMMCO response to an equipment information request. This element is optional because it is not required for equipment submission.

Add Region

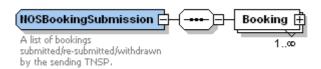
All stations in NOS have a NEM region appended by NEMMCO to the information provided by a TNSP. This element has been added to the NOSStationType to allow it to be provided to the TNSP as part of a NEMMCO response to an equipment information request. This element is optional because it is not required for equipment submission.

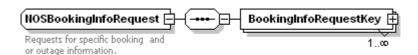
2.2.2.5 Change NOSBreakingResistorType

Change name of complex type NOSBreakingResistorType to NOSBrakingResistorType.

2.2.2.6 Changes to NOSBookingRequest

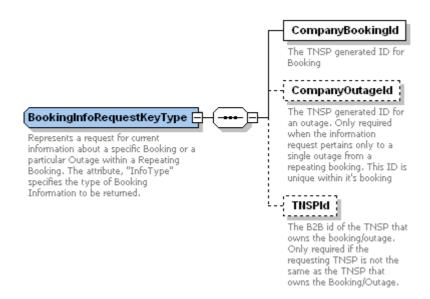
In NOSBooking_r14.xsd, the NOSBookingRequest transaction only supports the TNSP <u>submission of Booking information to NEMMCO</u>. In order to also support TNSP <u>requests for Booking information from NEMMCO NOSBookingRequest has been replaced with two transactions, NOSBookingSubmission & NOSBookingQuery.</u>





2.2.2.7 New BookingInfoRequestKey

A new complex type, NOSBookingRequestKey has been added to NOSBooking schema to support TNSP requests for Booking or Outage information from NEMMCO.



It should be noted that an important attribute of NOSBookingRequestKey is "infoType". This defines the type of information requested, namely TNSP booking submission data, appended NEMMCO assessment information or both sets of information.

```
<xsd:attribute name="infoType" use="optional" default="all">
<xsd:simpleType>
<xsd:restriction base="xsd:string">
```

```
<xsd:enumeration value="all">
    <xsd:annotation>
      <xsd:documentation>all information relating to the booking and or outage</xsd:documentation>
    </xsd:annotation>
   </xsd:enumeration>
   <xsd:enumeration value="NEMMCO">
    <xsd:annotation>
      <xsd:documentation>Only NEMMCO generated information about an outage (ie status constraints,
assessment notes )</xsd:documentation>
    </xsd:annotation>
   </xsd:enumeration>
   <xsd:enumeration value="TNSP">
     <xsd:annotation>
       <xsd:documentation>Only TNSP generated information (ie booking, outage)</xsd:documentation>
     </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
 </xsd:simpleType>
</xsd:attribute>
```

2.2.2.8 Change BookingType

Add TNSPID element

A new element TNSPID has been added to the BookingType complex type. This element defines the TNSP that submitted the Booking. This information is not required on Booking submission but is supplied as part of the NEMMCO response to a Booking information request. The TNSP identifier is the TNSPs registered B2B identifier.

```
<xsd:element name="TNSPId" type="PartyIdentifier" minOccurs="0">
<xsd:annotation>
<xsd:documentation>The B2B id of the TNSP that owns the booking. Not required for submission.
</xsd:documentation>
</xsd:annotation>
</xsd:element>
```

Add changedBy attribute

The changed by attribute has been added to BookingType complex type to allow user identifiers to be provided on submission and update Consider TNSP systems that poll for changed Bookings to send to NEMMCO, (say every 5 minutes). Changes may be made to the Booking by different users in the period between polling. The changed by attribute captures the user who made the last change to the element

Set attribute NOSOperation type to "optional".

Change NOSOperationType attribute from "required" to "optional". This attribute is used to indicate whether the information is new, being updated or deleted. (NOSOperationType values, SUBMIT, RESUBMIT & WITHDRAW) If the operation type is not set then the information being supplied has not changed. The change is to support a response to a TNSP request where equipment has not changed.

2.2.2.9 Change CompanyNoteType

Add changedBy attribute

The changed by attribute has been added to CompanyNoteType complex types to allow user identifiers to be provided identifiers to be provided on submission and update. Consider TNSP systems that poll for changed Bookings to send to NEMMCO, (say every 5 minutes). Changes may be made to the Booking by different users in the period between polling. The changed by attribute captures the user who made the last change to the element

Set attribute NOSOperation type to "optional".

Change NOSOperationType attribute from "required" to "optional". This attribute is used to indicate whether the information is new, being updated or deleted. (NOSOperationType values, Submit, Resubmit & Withdraw) If the operation type is not set then the information being supplied has not changed. The change is to support a response to a TNSP request where equipment has not changed.

2.2.2.10 NOSOutageType

Add changedBy attribute

The changed by attribute has been added to NOSOutageType complex types to allow user identifiers to be provided identifiers to be provided on submission and update. Consider TNSP systems that poll for changed Bookings to send to NEMMCO, (say every 5 minutes). Changes may be made to the Booking by different users in the period between polling. The changed by attribute captures the user who made the last change to the element

Set attribute NOSOperation type to "optional".

Change NOSOperationType attribute from "required" to "optional". This attribute is used to indicate whether the information is new, being updated or deleted. (NOSOperationType values, SUBMIT, RESUBMIT & WITHDRAW) If the operation type is not set then the information being supplied has not changed. The change is to support a response to a TNSP request where equipment has not changed.

2.2.2.11 New NOSINFORESPONSE transaction

A new transaction, NOSInfoResponse has been added to NOSAssessment schema to support

- TNSP requests for Booking, Outage or Equipment information from NEMMCO and
 - Unsolicited NEMMCO responses generated when there are changes in NEMMCO appended Assessment information.

Business scenarios requiring a NOSInfoResponse are as follows:-

- A TNSP request for a **complete** set of Booking and/or Assessment Information for a specific Booking or Booking Outage Period.
- NEMMCO users insert or update Assessment Information to a Booking Outage Period or group of Booking Outage Periods. The NOSInfoResponse will include all of the information relevant to the change.

It should be noted that NOSEquipment would not normally be part of the response to these scenarios. The reason for this is that imbedded in the Booking & Assessment complex types are equipment identifiers that the requesting TNSPs systems can interpret.

However, there are scenarios where equipment identifiers are insufficient and a response will need to include Equipment Details. This occurs when:

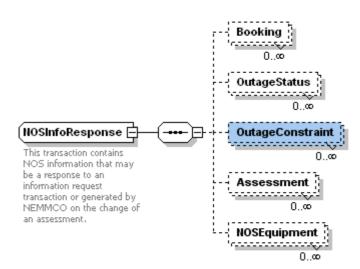
- a TNSP has requested information for another TNSPs Booking or Equipment
- or a requesting TNSPs Booking has been assessed in combination with an adjacent TNSPs Booking as information on the adjacent TNSP's Booking and Equipment is therefore required.

In each of these cases, the destination TNSPs is not expected to have data for the other TNSP's equipment. In each scenario the NOSInfoResponse will include at least one of, and potentially all of, the elements Booking, Outage Status, Outage Constraint, Assessment and NOS Equipment. These elements therefore have been logically grouped under the NOSInfoResponse transaction.

NOSInfoResponse is a multipurpose transaction used as a response to the NOSBookingInfoRequest and NOSEquipmentInfoRequest transactions and as an unsolicited notification transaction to inform users on the assessment and other outage status changes. In order to allow recepient of the transaction to distinguish between the different types of use, an attribute NOSInfoType is added. The attribute can have the following values: 'Booking Response', 'EquipmentResponse', Notification'.

The elements of NOSInfoResponseType are:-

- Booking of type BookingType (Existing complex type in NOSBooking schema)
- OutageStatus of type OutageStatusType (New complex type in NOSBooking schema)
- OutageConstraint of type OutageConstraintType (New complex type in NOSBooking schema)
- Assessment of type NOSAssessmentType (New complex type in new NOSAssessment schema)
- Equipment of type EquipmentBaseType (Existing complex type in NOSEquipment schema)



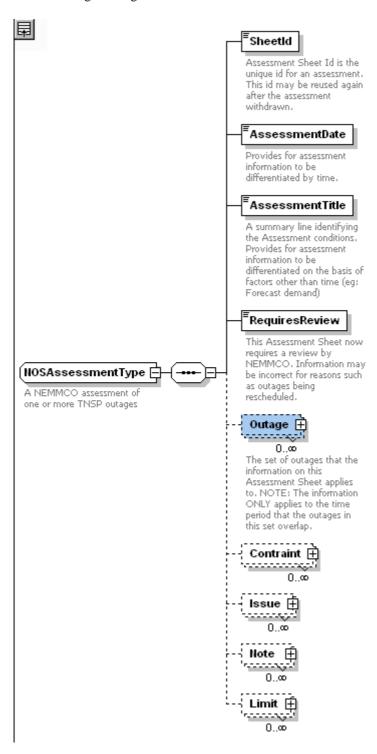
2.2.2.12 New schema NOSAssessment

The new schema has been defined to support the NOSInfoResponse transaction.

NEMMCO creates "Assessment Sheets" when assessing outages. Assessment sheets contain information such as Assessment conditions, Outages to which the Assessment Sheet applies, Constraint requirements, Issues pending, and a variety of user Notes and document attachments. Outages may have zero or many Assessment Sheets assigned to it. Particular Assessments Sheets may apply to the common time period of one or many Outages.

2.2.2.13 NOSAssessmentType

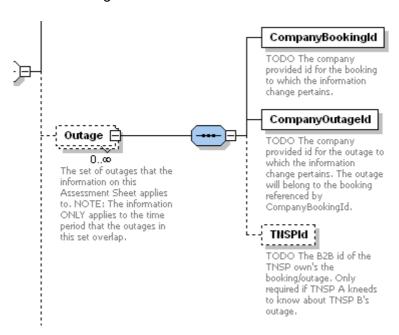
To support the TNSP request for Assessment information the complex type NOSAssessmentType has been defined.



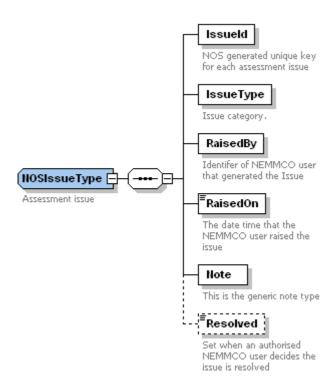
The complex type child elements of NOSAssessmentType, namely, Outage, Constraint, Issue, Note and Limit are also defined in the NOSAssessmentSchema.

It should be noted that NOSAssessmentType and each of the child elements has defined the optional attribute, NOSOperationType. This attribute is used to indicate whether the information is new, being updated or deleted. (NOSOperationType values, Submit, Resubmit & Withdraw) If the operation type is not set then the information being supplied has not changed.

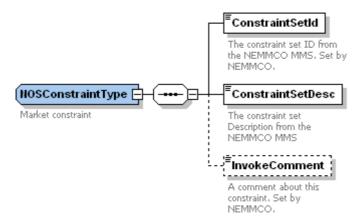
2.2.2.14 Outage



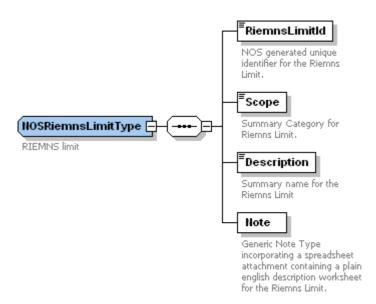
2.2.2.15 NOSIssueType



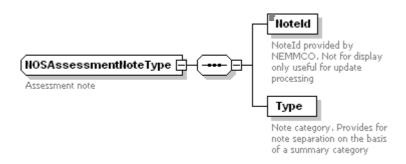
2.2.2.16 NOSConstraintType



2.2.2.17 NOSRiemnsLimitType



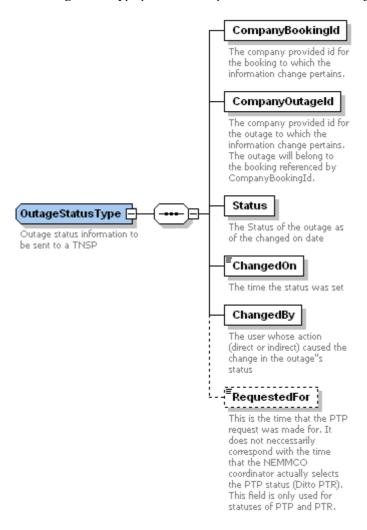
2.2.2.18 NOSAssessmentNoteType



2.2.2.19 New OutageStatusType

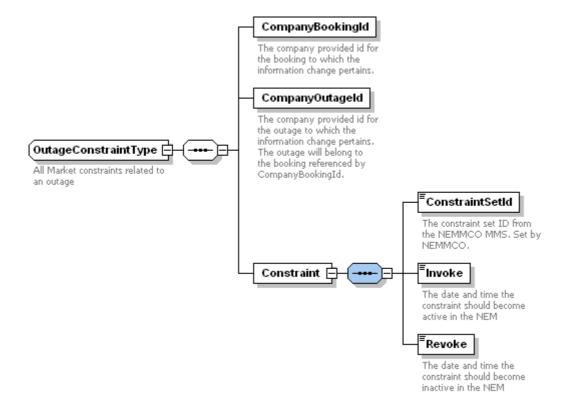
New complex type OUTAGESTATUSTYPE has been added to NOSAssessment schema to support the NOSINFORESPONSE transaction.

The OutageStatusType provides the operational status of an Outage that has been assigned by NEMMCO.



2.2.2.20 New OutageConstraintType

New complex type OUTAGECONSTRAINTTYPE has added to NOSAssessment schema to support the NOSINFORESPONSE transaction.



2.2.2.21 Change to EnumCompanyNoteType

Addition value "Isolation Points" has been added to the enumeration EnumCompanyNoteType.

2.2.2.22 New EnumOutageStatusType

New enumeration ENUMOutageStatusType added to NOSCommon schema. These are the possible statuses that can be assigned to an outage.

2.2.2.23 New EnumAssessmentIssueType

New enumeration EnumAssessmentIssueType added to NOSCommon schema. These are the possible Assessment Issue type summary categories.

2.2.2.24 New EnumAssessmentNoteType

New enumeration EnumAssessmentNoteType added to NOSCommon schema. These are the possible Assessment Note type summary categories.

2.2.2.25 Change to NoteType

Add element CreatedBy

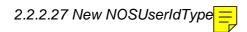
The changedBy element has been added to NoteType complex types to allow user identifiers for a note to be provided in a NEMMCO response.

Add element CreatedOn

The changedOn element has been added to NoteType complex types to allow a date stamp for a note to be provided in a NEMMCO response.

2.2.2.26 New NEMMCOIssueIdType

Add simple type NEMMCOIssueIdType to NOSCommon schema. This is the NEMMCO assigned issue identifier.



Simple type NOSUserIdType added to NOSCommon schema as a common definition for user id fields.

2.2.3 Change log

The following changes have been implemented:

Chg No	Description	FileName	Item#
1	NOSequipmentSubmission transaction upgraded to r16	NOSEquipment	1,2
2	EquipmentBaseType extended with NEMMCOName, ValidatedBy, TNSPID	NOSEquipment	1,2
3	NOSOperationType set to optional	NOSEquipment, NOSBooking	1,2, 3,4
4	NOSStationType extended with NEMMCOAbbrev, Region,	NOSEquipment	1,2
5	Change NOSBreakingResistorType to NOSBrakingResistorType	NOSEquipment	1,2
6	Added new transaction NOSequipmentInforRequest	NOSEquipment	1,2
7	Added new type NOSEquipmentInfoRequestKey	NOSEquipment	1,2
8	NOSBookingSubmission transaction upgraded to r16	NOSBooking	3,4
9	BookingType extended by TNSPID, changedBy	NOSBooking	3,4
10	CompanyNoteType extended by changedBy attribute	NOSBooking	3,4
11	NOSOutagetype extended by attribute changedBy	NOSBooking	3,4
12	Added new transaction NOSBookingInfoRequest	NOSBooking	3,4
13	Added new type BookingInfoRequestKey with infoType attribute	NOSBooking	3,4
14	NoteType extended by createdBy and ceatedOn	NOSCommon	3,4
15	EnumCompanyNoteType extended with Isolation points	NOSCommon	3,4
16	EnumOutageStatusType added to NOSCommon	NOSCommon	5
17	New enumeration EnumOutageStatusType added to NOSCommon	NOSCommon	5
18	New enumeration EnumAssesmentIssueType added	NOSCommon	5
19	New enumeration EnumAssessmentNoteType added	NOSCommon	5
20	New NEMMCOIssueIDType created	NOSCommon	5

Chg No	Description	FileName	Item#
21	New NOSUserIdType created	NOSCommon	5
22	New NOSInfoResponse transaction	NOSAssessment	5
23	New NOSAssessmentType created	NOSAssessment	5
24	New NOSIssueType added	NOSAssessment	5
25	New NOSConstraintType added	NOSAssessment	5
26	New NOSRiemnsLimitType added	NOSAssessment	5
27	New NOSAssessmentType added	NOSAssessment	5
28	New OutageStatusType added	NOSAssessment	5
29	New OutageConstraintType	NOSAssessment	5

2.3. Test

2.3.1 Test Platforms

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

- o XMLSpy 5.3
- o MSXML4 SP1
- o Xerces 1.4.4 and 2.2.1

2.3.2 Test Cases

The following NOS specific test cases have been developed and tested against all the above parsers.

- $o \quad NOSAssessmentInsertStatusInfoResponse_r16.xml$
- o NOSAssessmentInsMultiOutageInfoResponse_r16.xml
- ${\color{gray} \circ} \quad NOSAssessment Update Indoubt Info Response_r 16.xml$
- $o \quad NOSAssessment Update NoteInfoResponse_r16.xml \\$
- o NOSAssessmentWithdrawInfoResponse_r16.xml
- NOSBookingInfoRequest_r16.xml
- NOSBookingInfoResponse_r16.xml
- o NOSBookingInfoResponse_r16.xml
- o NOSEquipmentInfoRequest_r16.xml
- NOSEquipmentInfoResponse_r16.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

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

- o XMLSpy 5.3
- MSXML4 SP1
- o Xerces 1.4.4 and 2.2.1

3.1.2 Test Cases

The following NOS specific and the other schema files have been tested to confirm the conformance to the new r16 schema. The testing confirms that the schema can be parsed with the above parsers and the example files can be used with this schema.

- NOSAssessmentInsertStatusInfoResponse_r16.xml
- o NOSAssessmentInsMultiOutageInfoResponse_r16.xml
- o NOSAssessmentUpdateIndoubtInfoResponse_r16.xml
- NOSAssessmentUpdateNoteInfoResponse_r16.xml
- NOSAssessmentWithdrawInfoResponse_r16.xml
- o NOSBookingInfoRequest_r16.xml
- NOSBookingInfoResponse_r16.xml
- NOSBookingInfoResponse_r16.xml
- o NOSEquipmentInfoRequest_r16.xml

3.2. Dependency analysis

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NOSInfoResponse	•	NOSAssessment.xsd	NOSAssessmentNotetype	-	-
NOSInfoResponse	-	NOSAssessment.xsd	OutageStatusType	-	-
NOSInfoResponse	-	NOSAssessment.xsd	OutageContraintType	-	-
-	-	NOSCommon.xsd	EnumCompanyNoteType	-	-
-	-	NOSCommon.xsd	EnumOtageStatustype	-	-
-	<u>-</u>	NOSCommon.xsd	EnumAssessmentIssueType	<u>-</u>	-
_	_	NOSCommon.xsd	EnumAssessmentNoteType		_
_					-
-	-	NOSCommon.xsd	NoteType	-	-
-	-	NOSCommon.xsd	NEMMCOlssueldType	-	-
-	-	NOSCommon.xsd	NOSUserIdType	-	-
NOSEquipmentSubmission	-	NOSEquipment.xsd	NOSEquipmentSubmission(tran saction)	-	-
NOSBookingSubmission	-	NOSBooking.xsd	NOSBookingSubmission(transac tion)	-	-

3.3. Conformance Report

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

Table 3-1, Change Proposal Conformance Details

Schema Filename	Impacted by Item #	Conformance Details
NOSBooking	1	Conforms
NOSEquipment	2	Conforms
NOSBooking, NOSEquipment	1,2	Conforms
NOSCommon	4	Conforms
NOSAssessment	1, 3, 5	Conforms
Transactions	1, 2, 3, 4, 5	Conforms

4. Review Disposition

The ASWG assists developers with schema related queries and confirms appropriateness of development against criteria.

4.1. Description of Changes - Approved and Accepted

Table 4-1, Review Notes for proposed approvals

Item#	Review Notes	Status
All	The 4 th level headings in section 2.2.2, all have the wrong numbers, i.e. start with number 1.1.1.#	Updated
1	Diagram in section 2.2.2.1 shows NOSEquipmentQuery transaction, this has been replaced in schema with NOSEquipmentInfoRequest transaction	Updated
2	Section 2.2.2.9, the enumerated values for the NOSOperationType attribute are given in UPPERCASE in the CR, but are standard case in the schema, i.e. SUBMIT versus Submit	Updated
3	Diagram in section 2.2.2.6 shows NOSBookingQuery transaction, this has been replaced in the schema with NOSBookingInfoRequest transaction	Updated
4	Section 22 describes the addition of a "changedBy" attribute to the NoteType complex type. This attribute does not exist in the NoteType complex type in the NOSCommon.xsd schema file.	Updated
1, 3, 5	Section 2.2.2.11 states that the NOSInfoResponse has been added to the NOSCommon schema, it has actually be created in the NOSAssessment schema	Updated
1, 3, 5	Section 2.2.2.18 the NOSAssessmentNoteType complex type in the CR iincludes a "Note" element, this element does not exist in the NOSAssessmentNoteType in the NOSAssessment schema	Updated
1, 3, 5	Section 2.2.2.22, the enumerated values in the ENUMOutageStatusType defined in the NOSAssessment schema are all in UPPERCASE, where all other enumeration values are in standard case.	Updated
2, 4, 5	NOSInfoType attribute has been added to the NOSInfoResponse transaction type, this needs to be reflected in the CR document.	Updated

Note: Item# is a reference to items listed in the Description of the proposed approval.

4.2. Impact assessments on Participant's systems

The ASWG seeks the market participants' input on the expected business and technical impacts.

4.2.1 Business Impact

4.2.2 Technical Impact

4.3. Supplied Documents

5. Resolution

The ASWG provides a resolution for each change item contained in the Approval Proposal. The resolution is forwarded to the Originator for implementation considerations as required by respective Change Management Process.

5.1. Changes Approved and Accepted

The ASWG compiles the list of change items proposed for approval together with their resolution status in the table below.

Table 5-1, Change Resolution

Item#	Resolution Notes	Status
1	Allow TNSP to request Equipment information and NEMMCO to respond	Approved
2	Add/update Equipment type to accommodate provision of NEMMCO generated data	Approved
3	Allow TNSP to request Booking information and NEMMCO to respond	Approved
4	Add/update Booking type to accommodate provision of NEMMCO generated data	Approved
5	Allow NEMMCO to send Outage Assessment information to TNSP	Approved

Note: Item# is a reference to items listed in the Description of Changes - Approved and Accepted.