MODIS Interface Specification

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1 Purpose

The purpose of this document is to specify the interface details and the report specification required for the ETR project. This document specifies detailed information about the data required to build reports to be exchanged between Market Participant and National Grid.

National Grid will provide a system called MODIS (Market Operations Data Interface System) for the Market Participant's interface.

2 Glossary

Abbreviation	Description
ACC	Accept
ACK	Acknowledgement
BTU	Balancing Time Unit
EC	European Commission
EIC	Energy Identification Code
EMFIP	Electricity Markets Fundamental Information Platform
ENTSO-E	European Network of Transmission System Operators for Electricity
ETR	European Transparency Regulation
EU	European Union
GUI	Graphical User Interface – the screens
MODIS	Market Operation Data interface System
MP	Market Participant
MTU	Market Time Unit
NACK	Negative Acknowledgement
NGET	National Grid Electricity Transmission
REJ	Reject
REMIT	Regulation for Energy Markets Integrity and Transparency
sFTP	Secure File Transfer Protocol
TLS	Transport Layer Security
TSO	Transmission System Operator
UTC	Universal Time Coordinated The UTC Date and Time format would be "2007-04-05T14:30:50Z" Here "Z" is the Time Zone designator if the time is in UTC adds the Z directly after the time without a space. Here "T" is the prefix for the UTC time.
XML	eXtensible Markup Language. A markup language that defines a set of rules for encoding documents in a format which is both human-readable and machine-readable

3 Requirement

The Market Participants are required to provide data for the following ETR Articles and for REMIT:

- A7.1a - Planned unavailability of consumption units
- A7.1b - Actual availability of consumption units
- A10.1c - Unavailability of offshore infrastructure
- A15.1a – Planned Unavailability of Generation Units
- A15.1b - Actual Unavailability of generation unit
- A15.1c - Planned Unavailability of Production Units
- A15.1d - Actual Unavailability of production unit

- B2010 – REMIT - Info on Outages and generation & and Consumption Units

3.1 Unavailability of Consumption Units

B0710: Planned Unavailability of Consumption Units (A7.1a)

Priority: Must have
Frequency: Ad-hoc
Data Volume: Low

Requirement

1. To provide the 'Planned Unavailability of Consumption Units'
   1.1. This is required only if the available consumption capacity is decreased by more than 100 MW during more than one market time unit.
   1.2. The Consumption Unit sends the unavailability information with the exact start time and estimated end time
   1.3. In case the submission of start and stop dates does not contains information of minutes, they should be considered equal to zero.
2. The information must be published as soon as possible but no later than one hour after the decision regarding the planned unavailability is made.

The primary owner of this data is the Consumption Unit.

B0720: Changes in Actual Availability of Consumption Units (A7.1b)

Priority: Must have
Frequency: Ad-hoc
Data Volume: Low

Requirement

1. To provide the 'Changes in Actual Availability of Consumption Units'
   1.1. This is required only if the available consumption capacity is decreased by more than 100 MW during more than one market time unit.
   1.2. The Consumption Unit sends the unavailability with the exact start time and end time
   1.3. In case the submission of start and stop dates does not contains information of minutes, they should be considered equal to zero.
2. The information must be published as soon as possible but no later than one hour after the change in actual availability.
3. The primary owner of this data is the Consumption Unit

3.2 Unavailability of Transmission Infrastructure

B1030: Changes in Actual Availability of Off-Shore Grid Infrastructure (A10.1c)

Priority: Must have
Frequency: Ad-hoc
Data Volume: Low

Requirement

1. To provide the 'Changes in the actual availability of off-shore grid infrastructure'

1.1. This is changes in the actual availability of off-shore grid infrastructure that reduce wind power feed-in by 100MW or more during at least one market time unit

2. The information must be published as soon as possible but no later than one hour after the change in actual availability.

3. The outage subjects may be provided with links to pages that provide full details; type, name and location. This is displayed in a list if more than one asset has been declared.

4. The primary owner of this data is the Offshore Transmission Owner (OFTO).

3.3 Unavailability of Generation and Production Units

B1510: Planned Unavailability of Generation Units (A15.1a)

Priority: Must have
Frequency: Ad-hoc
Data Volume: Low

Requirement

1. To provide the 'Planned unavailability of generation units'

1.1. This is only required if the planned unavailability is 100 MW or more

1.2. A new report is needed when availability changes upwards or downwards by 100 MW or more

1.3. This is required only if the unavailability is expected to last for at least one settlement period

1.4. This includes information on unavailability up to three years ahead

1.5. The "available capacity during the event" means the minimum available generation capacity

1.6. The status is 'active' when availability is reduced and 'cancelled' when availability is increased

2. The data may relate to Generation Unit in a data model but the 'owner' of the data is the Company to which the Generating Unit belongs.

3. The information must be published as soon as possible, but no later than one hour after the decision regarding the planned unavailability is made.

B1520: Changes in Actual Availability of Generation Units (A15.1b)

Priority: Must have
Frequency: Ad-hoc
Data Volume: Low

Requirement

1. To provide the 'Changes in Actual availability of generation units'

1.1. This is changes of 100 MW or more in actual availability of a generation unit expected to last for at least one settlement period

1.2. This report is not required if the actual unavailability has been planned and already reported with the correct available capacity.

1.3. The "available net capacity during the event" means the minimum available generation capacity during the period specified.

2. The information must be published as soon as possible but no later than one hour after the change in actual availability.

3. The data may relate to Generation Unit in a data model but the 'owner' of the data is the Company to which the Generating Unit belongs.

B1530: Planned Unavailability of Production Units (A15.1c)

Priority: Must have
Frequency: Ad-hoc
Data Volume: Low

Requirement

1. To provide the 'Planned unavailability of Production units'
   1.1. This is only required if the planned unavailability is for stations of 200 MW or more
   1.2. This includes changes of 100 MW or more in the planned unavailability of that production unit
   1.3. This is required only if the unavailability is expected to last for at least one settlement period
   1.4. This includes information on unavailability up to three years ahead
   1.5. The "available capacity during the event" means the minimum available generation capacity
   1.6. This report is not required if the information about unavailability is already provided as part of the 'unavailability of Generation Units'
2. The information must be published as soon as possible, but no later than one hour after the decision regarding the planned unavailability is made.
3. The data may relate to Production Unit in a data model but the 'owner' of the data is the Company to which the Production Unit belongs.

B1540: Changes in Actual Availability of Production Units (A15.1d)

Priority: Must have
Frequency: Ad-hoc
Data Volume: Low

Requirement

1. To provide the 'Changes in Actual availability of production units'
   1.1. This applies to changes of 100 MW or more in actual availability of a production unit with capacity of 200MW or more expected to last for at least one settlement period
   1.2. This report is not required if the actual unavailability has been planned and already reported with the correct available capacity.
   1.3. The "available net capacity during the event" means the minimum available generation capacity during the period specified.
2. The information must be published as soon as possible but no later than one hour after the change in actual availability.
4. The data may relate to Production Unit in a data model but the 'owner' of the data is the Company to which the Production Unit belongs.

3.4 REMIT Requirements

B2010: Information on Outages of Generation and Consumption Units

Priority: Must have
Frequency: Ad-hoc
Data Volume: Low

Requirement

1. To provide Information on Outages of Generation and Consumption Units

   1.1. National Grid is required to provide a mechanism to pass the data submitted by market participants to Elexon.

      1.1.1. The data includes any planned outage, limitation, expansion or dismantling of capacity of one generation unit, consumption or transmission facility that equals or exceeds 100 MW, including changes of such plans;

      1.1.2. The data also includes any unplanned outage or failure of capacity that equals or exceeds 100 MW for one generation unit, consumption or transmission facility, including updates on such outages or failures.

   1.2. Market participants must be able to submit the data at any time of the day/night.

   1.3. It is up to the Owner of the unit/asset having an outage to decide if their information needs to be submitted to National Grid.

2. The information must be provided to Elexon for publication within 5 minutes of receipt by National Grid

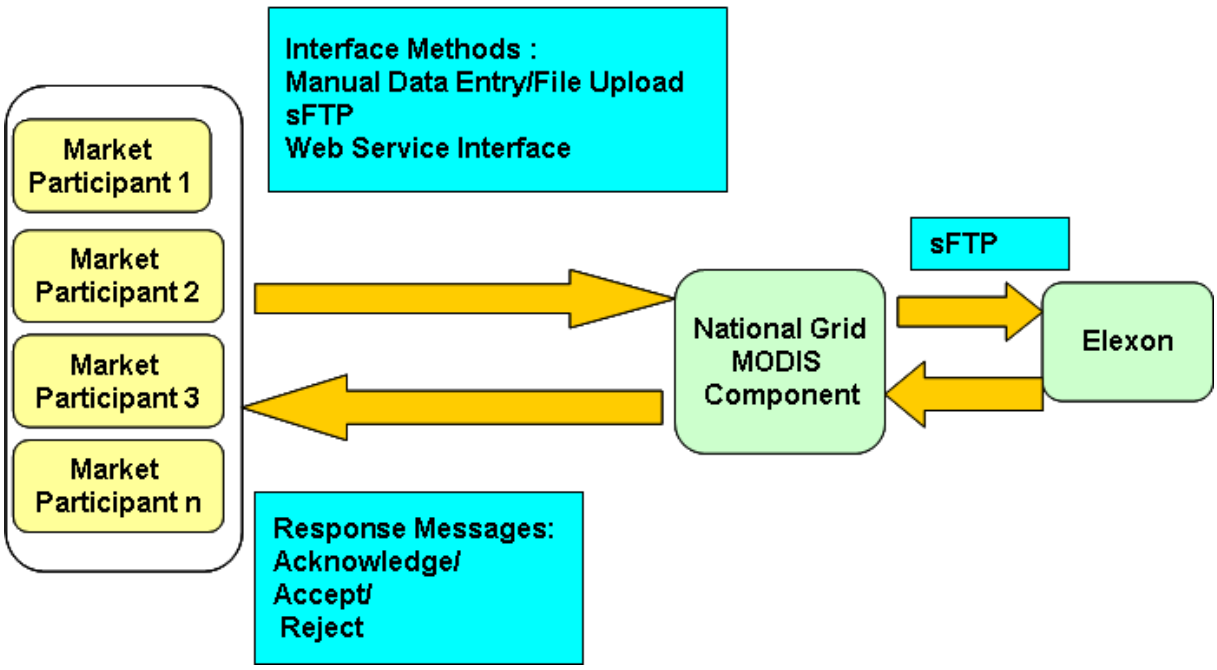
3. The primary owners for this data are the Market Participants

4 Interface Methods

This section describes the interface methods identified for the data transfer between Market Participants and National Grid MODIS component.

4.1 Market Participant -> NG Interface

The below diagram shows the interaction between market participants and National Grid MODIS component,



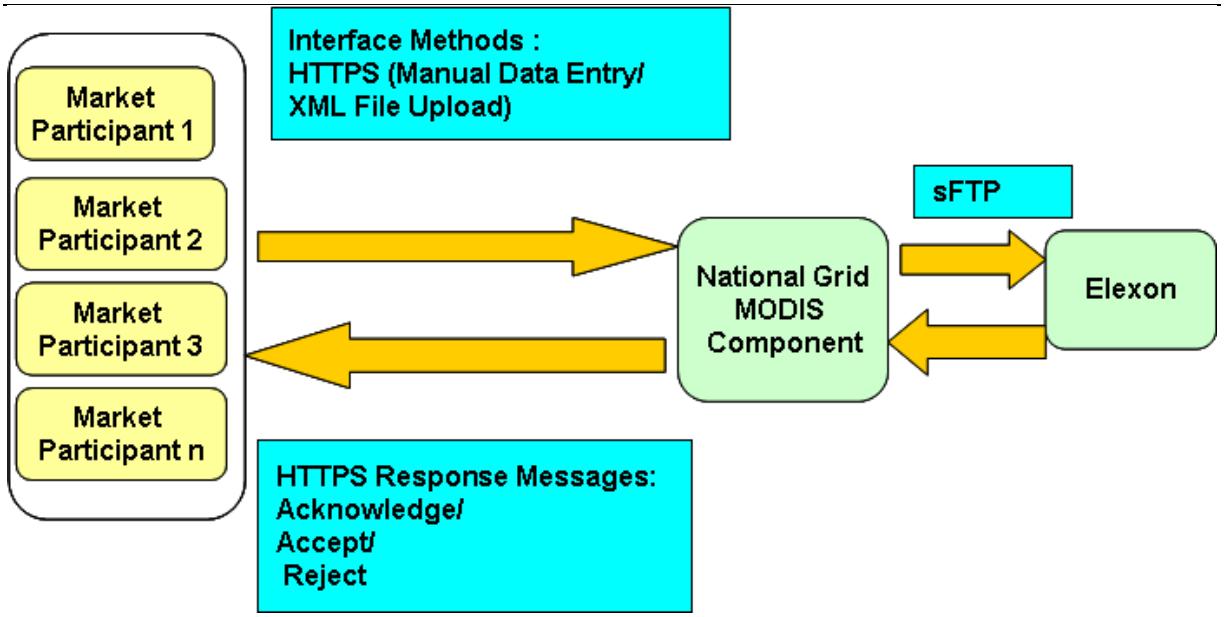
Interface Flow:

- The Market Participants can provide the required data using one of the methods below:
  - Manual Data Entry /File Upload
  - sFTP file transfer using XML File format
  - Web Service

- Only one response message as acknowledgement/accept or reject would be provided to the Market Participants.

4.1.1 Manual Data Entry Using GUI Form / XML File Upload

The below diagram describes the interaction between market Participants and National Grid MODIS Component via interface method manual data entry using GUI form and XML File upload.



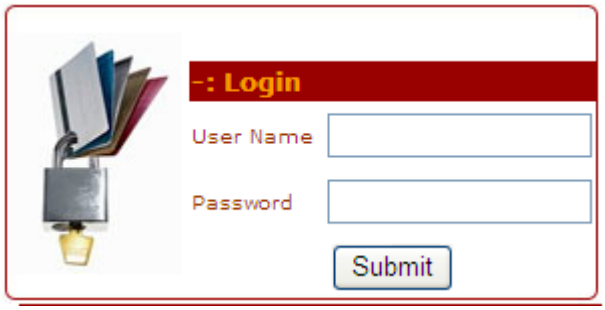
4.1.1.1 Manual Data Entry Using GUI Form

Manual Data Entry Using GUI Form:

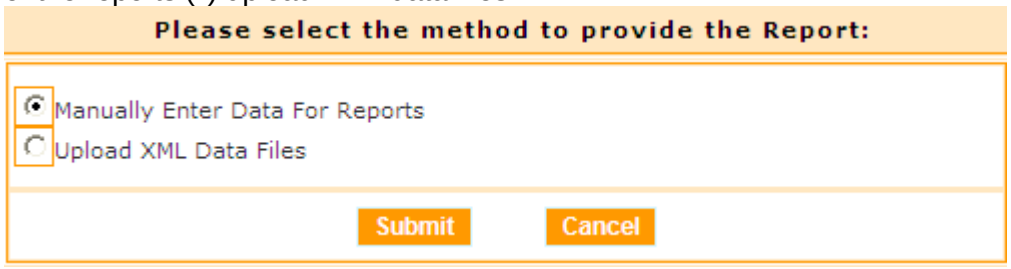
- The Market Participants will access ETR GUI view to manually enter data into the system by selecting the appropriate report type. The user then enters information into the data fields and submits it to MODIS.
- The system will validate the data entered into the fields. On completion of validation, information submitted will be extracted and stored in the database. The system will display a screen to the user to indicate that the information entered have been received for processing. The information will then be stored in the system.
    - Where there are issues with the data received, an acknowledgement will be displayed to the user. Once an acknowledgment or successful data entry information has been displayed, there will be no further message to be displayed to the user.
- The system will use the stored information to create a report and send it to ELEXON using underlying sFTP process.
    - Where there are issues with the report sent, ELEXON will generate and send an acknowledgement back to MODIS - using FTP.
    - Next time when Market Participant will login the ETR system they would be able to see the confirmation/rejection message.
- On completion of processing within ELEXON, it will then send a Confirmation or Rejection file to MODIS.
    - Next time when Market Participant will login the MODIS system they would be able to see the confirmation/rejection message.

Sample Screens for Manual Data Entry using GUI Form:

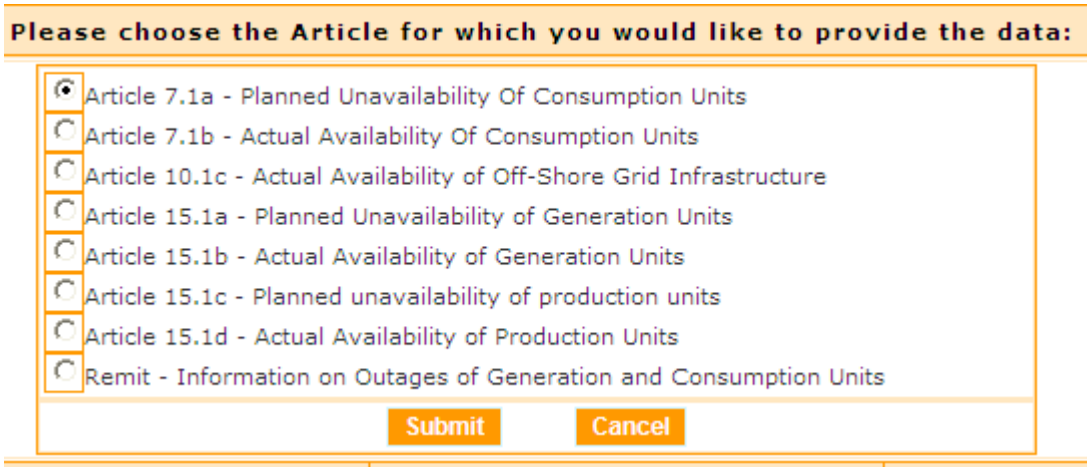
To login into the system, users will be required to provide their unique credentials (i.e. user name and password) which will be authenticated against the NG active directory. The credentials are expected to be the same as the one-Net user account details. Authenticated and authorised users will be directed to the 'ETR Home Page' to access ETR functions and load data into the system. The below screen shows the sample login screen which could be used to login into the ETR system.



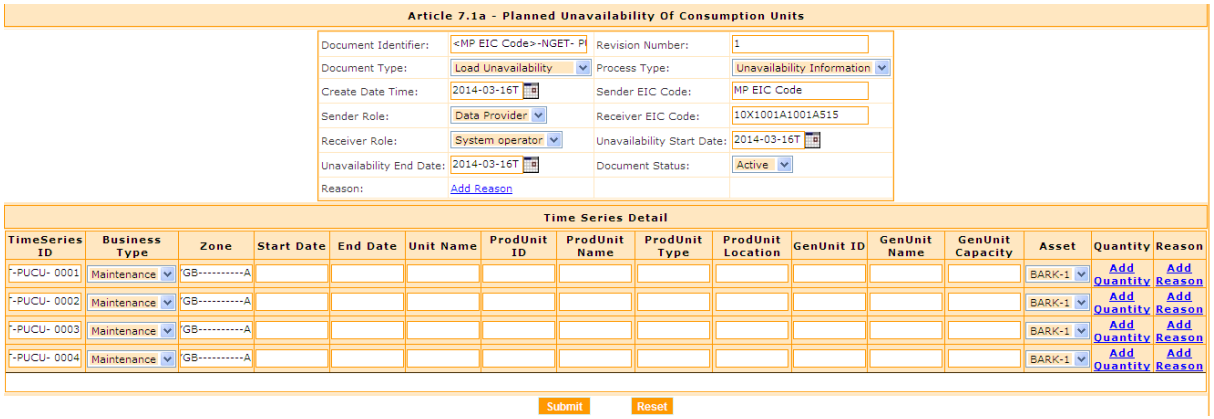
Below is the main ETR screen which will allow all users to; (i) manually provide data for each of the reports (ii) upload XML data files.



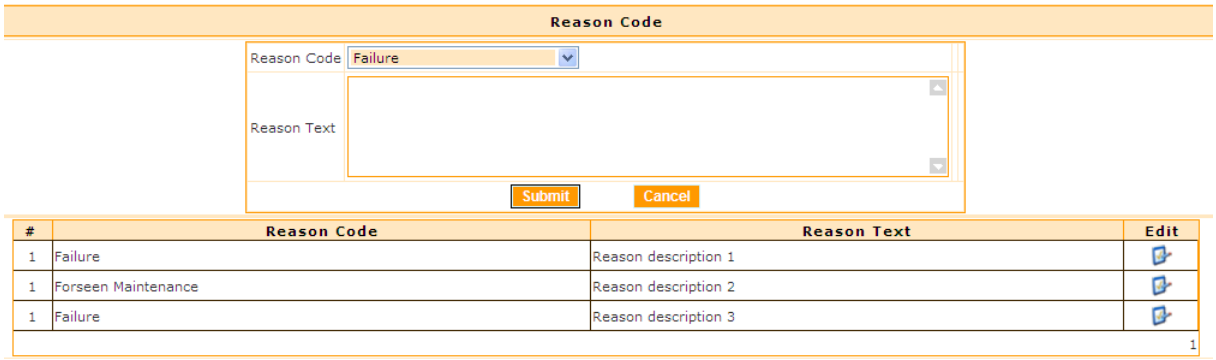
If user will select the option to manually enter the data for reports, the system will provide a list of all article/remit data options to choose from via below screen.



Once user selects the appropriate Article, then all the Meta Data/Header for that article would be pre-populated. User need to enter the content which would be processed using the XSD once they submit via a submit button.



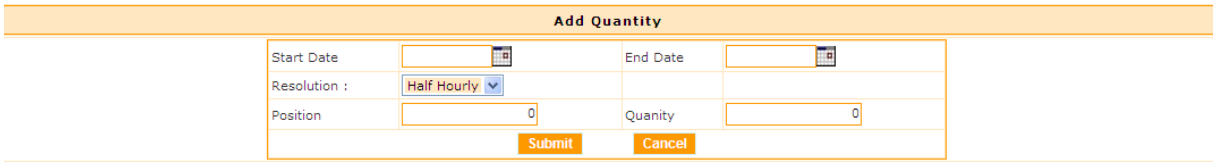
A single reduced availability event can consist of a set of availabilities at various levels with from/to times.
There are some dependent mandatory data to be entered using the hyperlink or button.
When user would click on “Add Reason” hyperlink he/she would be able to enter the multiple records for the reason for both Unavailability Market Document and Time Series.



#	Reason Code	Reason Text	Edit
1	Failure	Reason description 1	
1	Forseen Maintenance	Reason description 2	
1	Failure	Reason description 3	

1

When user would click on “Add Quantity” hyperlink he/she would be able to enter the multiple records for the Availability Period and Quantity associated with Time Series.



#	Start Date	End Date	Resolution	Position	Quanity	Edit
1	2014-03-14T14:00Z	2014-03-14T14:30Z	Half Hourly	1	50.55	
2	2014-03-14T14:30Z	2014-03-14T15:00Z	Half Hourly	1	54.33	
3	2014-03-14T15:30Z	2014-03-14T16:00Z	Half Hourly	1	54.33	
4	2014-03-14T16:30Z	2014-03-14T17:00Z	Half Hourly	1	54.33	
5	2014-03-14T17:30Z	2014-03-14T18:00Z	Half Hourly	1	54.33	

1

Note: These are the sample screens and would be finalized and enhanced during development phase

4.1.1.2 Upload XML File

Upload XML File using GUI Form:

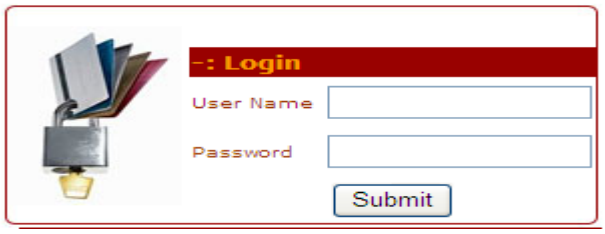
- The Market Participants will access ETR view to upload an XML data file by selecting the source folder, destination folder, the file to be uploaded and the report type to be created.
- The system will check to ensure the sender is allowed to provide data to NG (i.e. valid sender information) and that the structure of the XML data file is valid.
    - An acknowledgement screen from MODIS will be displayed to the Market Participants where there is a failure during the check for a valid Market Participant’s code and file structure.
- If there are no issues with the uploaded data file, the system will display a screen to show that the file has been successfully uploaded.
- The data file will be processed by MODIS and report sent to ELEXON folder using a similar FTP process described above. Processing within ETR will include replacing the sender information (e.g. EIC code) with that of Elexon.
    - Where there are issues with the file received during processing, ELEXON will provide an acknowledgement back to MODIS.

- Next time when Market Participant will login to the ETR system they would be able to see the confirmation/rejection message.

- On completion of processing within ELEXON, it will then send a Confirmation or Rejection file to MODIS.
  - Next time when Market Participant will login the MODIS system they would be able to see the confirmation/rejection message.

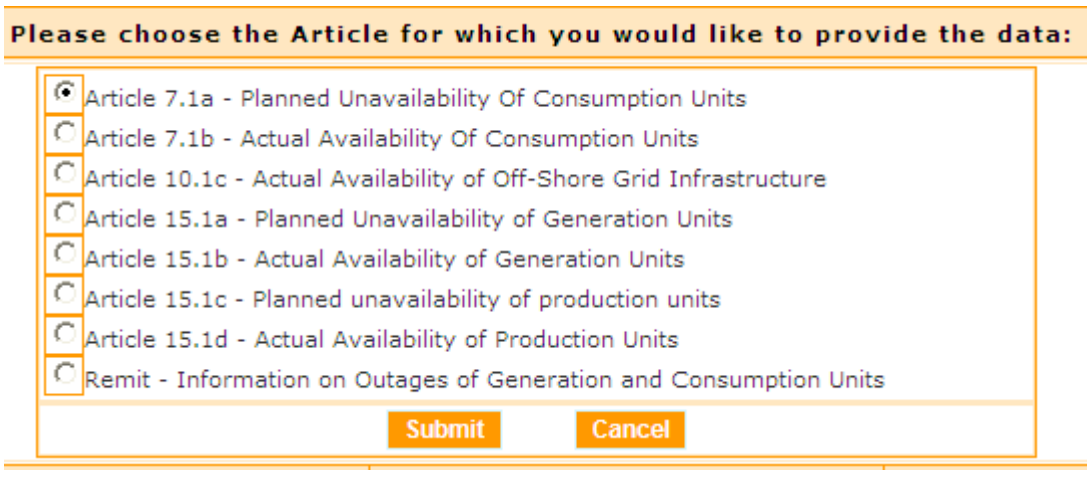
Sample Screen for XML File Upload:

To login into the system, users will be required to provide their unique credentials (i.e. user name and password) which will be authenticated against the NG active directory. The credentials are expected to be the same as the one-Net user account details. Authenticated and authorised users will be directed to the 'ETR Home Page' to access ETR functions and load data into the system. The below screen shows the sample login screen which could be used to login into the MODIS system.

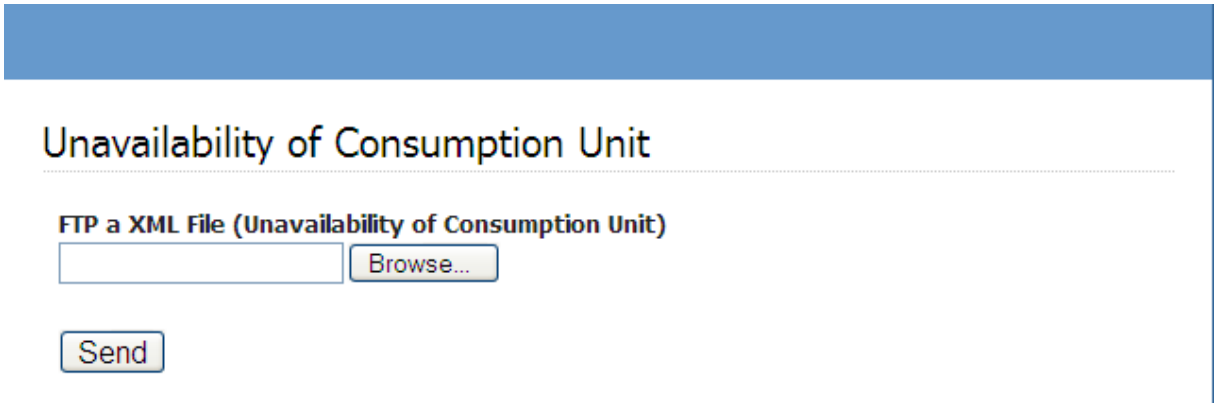


Below is the main MODIS screen which will allow all users to; (i) manually provide data for each of the reports (ii) upload XML data files.

If user will select the option to upload XML Data Files, the system will provide a list of all article/remit data options to choose from via below screen.



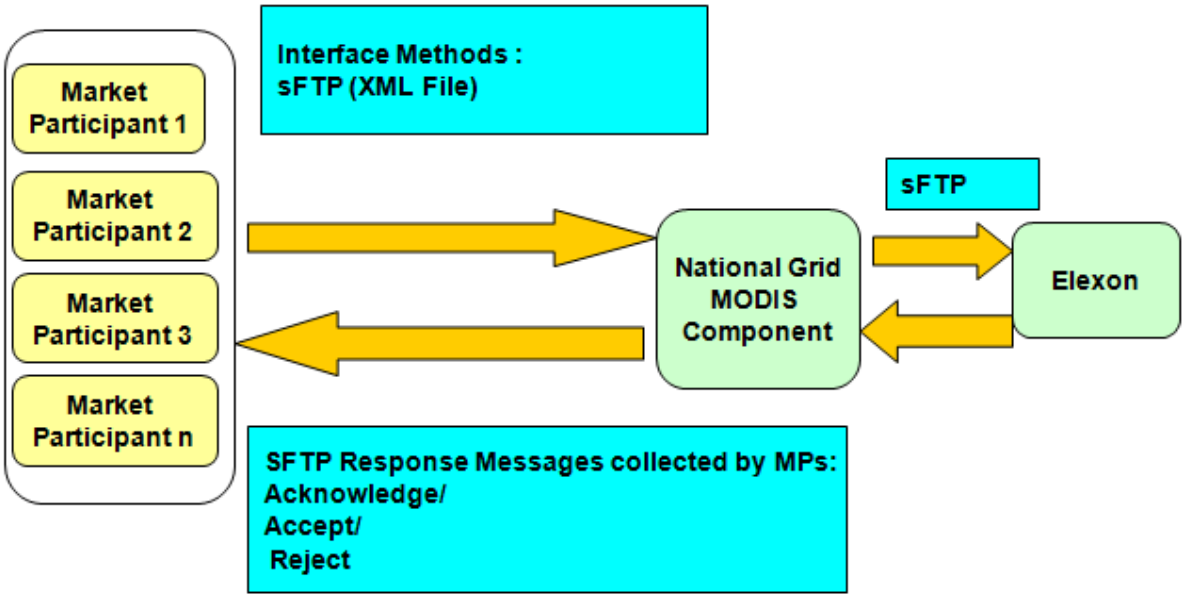
Below screen will allow NG internal users to upload data files. The screen will allow a user to browse to the source location, target location and to specify a file to be uploaded. The system will then send the file across using sFTP utility.



Note: These are the sample screen and it would be finalized and enhanced during development phase.

4.1.2 sFTP (System to System) Interface

The below diagram describes the interaction between market Participants and national Grid MODIS Component via interface method sFTP.



sFTP Flow:

- Market Participants will create a file and send it to an agreed ETR folder location. The application will poll the ETR folder location for the file sent by the Market Participant. An agreed naming convention (TBA) will ensure files are unique to each Market Participants and type of report to be created.
- On receiving the file, the system will check to ensure the sender is allowed to provide data to NG (i.e. valid sender information) and that the structure of the XML data file is valid.
    - Where it has not been possible to process the file due to errors about sender or structure of the file, an acknowledgement file will be created and sent from MODIS to an agreed (TBA) Market Participants folder location.
- The data file will be processed by MODIS and a report sent to ELEXON using a similar sFTP protocol described above. The processing will include replacing the sender information (e.g. EIC code) with that of Elexon
    - Where it has not been possible for ELEXON to process the file, ELEXON will then provide acknowledgement back to MODIS regarding the specific report received. MODIS system will poll the agreed (TBA) folder location for the acknowledgment file which will in turn be sent to the Market Participants.
- On completion of the processing within ELEXON, it will then send a Confirmation or Rejection file to MODIS. MODIS will poll the agreed (TBA) folder location for the Confirmation / Rejection file.
- On receiving a Confirmation or Rejection, MODIS will make the ACK/NACK available for MPs to collect.

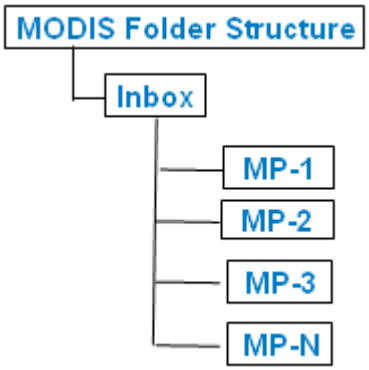
sFTP Access Requirement: All Market Participants that want to use sFTP interface method must state this in-advance so that appropriate FTP User IDs are set-up on both NG and MP systems.

sFTP Folder Requirement for National Grid:

National Grid will need to specify the Inbound and Outbound folder structure.

Outbound Folders: National Grid will not expose these folders to Market Participants.

Inbound Folders: Each Market Participant will have a specific inbound folder assigned. Naming convention will ensure files are unique. Market Participants will have the write permission to upload the file to their corresponding folder.



sFTP Folder Requirement for Market Participant:

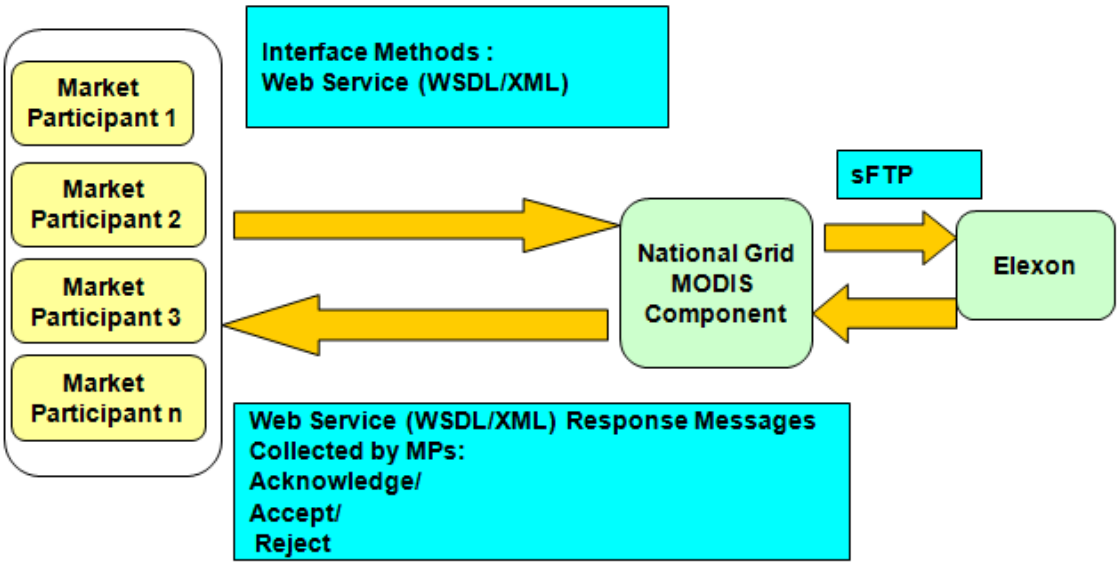
Market participants will need to specify the Inbound and Outbound folder structure.

Outbound Folders: May not expose these folders to National Grid.

Inbound Folders: Each Market Participant will have to specific inbound folder. Naming convention will ensure files are unique. National Grid must have the write permission to upload the acknowledgement file to the corresponding Market Participant's inbound folder.

4.1.3 Web Service

The diagram below describes the interaction between market Participants and national Grid MODIS Component via interface method Web Service.



4.1.3.1 Available Web Services

- National Grid will provide two Webservices as follows, one for Market Participants to submit the Outages/Remit data and another for collecting the acknowledgement files:
  - Request Service:

    Service Name: ParticipantsNGRIDOutageRequest

    Input parameters: XML File , UserName , Password , FileName

    Description: Using this service Market participant can submit the Outage and Remit Reports.

  - Response Service:

    Service Name: NGRIDParticipantsOutageResponse

    Input parameters: DocBusMRID , RevisionNumber , Username , Password

    Description: Using this service market participant can fetch the acknowledgement placed in the respective MP folder. The Response web service is to fetch the acknowledgement received by Elexon. Once the ACK/NACK is recieved from Elexon, MODIS application checks if the acknowledgement is related to a web service submission, if so it will place the file in the respective MP folder.

- The Request service above will perform the initial service layer validation and produce one of the following return codes and an initial response back to the initiator:
  - Return code — Description
    00 — Message received and will be processed
    01 — Login Failed . Try again with correct username

	and password
02	Unable to read the file
04	LDAP Connection Error

MPs should only initiate a Response service if a successful ('00') return code has been received for the appropriate Request service sent to NG.

- Following on from the service layer validation, the system will check the data received to ensure the sender is allowed to provide data to National Grid (i.e. valid sender information) and that the structure of the XML data file is valid.
- The data file will be processed by MODIS and sent to ELEXON using a FTP protocol.
    - Where there are issues with the data received, MODIS will place Ack/NACKs in a folder for MPs to collect by invoking the response Web Service stated above.
- On completion of processing within ELEXON, it will then send a Confirmation or Rejection file to MODIS.
- On receiving a Confirmation or Rejection from ELEXON, MODIS will place the Ack/NACKs in a folder for MPs to collect by invoking a Web Service.

Please note that once the Ack/NACK files have been collected by the Market Participants, via the response service above, the file is then removed from the system and cannot be retrieved again.

4.1.3.2 Web Service Security and Authentication

Web service authentication will be based on TLS for connections between the parties and Access Control Security with the users and roles specified. It will utilise the user credentials for authentication. Userid /Password set-up for the ETR access via the internet can be utilised as the user credentials for invoking the Web services.

4.1.3.3 Sample WSDL

The sample WSDL attached in section 11 of this document.

4.1.4 Details of WSDL (URL)

The details of WSDL files can be found at the following locations
For FOF and for PROD the first link is for submitting files (Request service) and the second link is for requesting Acks/Nacks (Response service)

4.1.4.1 External URLs

FOF:
https://etr-test.modis.nationalgrid.com/ETR_MODIS/services/ParticipantsNGRIDOutageRequest?wsdl
https://etr-test.modis.nationalgrid.com/ETR_MODIS/services/NGRIDParticipantsOutageResponse?wsdl

Production:
https://etr.modis.nationalgrid.com/ETR_MODIS/services/ParticipantsNGRIDOutageRequest?wsdl
https://etr.modis.nationalgrid.com/ETR_MODIS/services/NGRIDParticipantsOutageResponse?wsdl

4.1.4.2 Web Services - Invoke with an Override

IMPORTANT: Please note that the routine or the class used to invoke the Web Services above will need to have an override to use the URLs mentioned in the External URL paragraph above rather than using the url in the <wsdlsoap: address location=…../> in WSDL.

This is because the services need to be invoked using 'https' rather than the WSDL address location which is pointing to an 'http' address, which is required internally by NG.

Java code example (similar changes would need to be made if a different language is used to invoke the service) with the override would be as follows:

```
String endPointUrlValue = "https://etr-
test.modis.nationalgrid.com/ETR_MODIS/services/ParticipantsNGRIDOutageRequest?wsdl";
URL endPointURL= new URL(endPointUrlValue);
ParticipantsNGRIDOutageRequestService outageService = new
ParticipantsNGRIDOutageRequestService(endPointURL,  new
QName("http://interfaces.service.etrmodis.ngrid.com","ParticipantsNGRIDOutageRequestService"));
ParticipantsNGRIDOutageRequest getServicePort = outageService.getParticipantsNGRIDOutageRequest();

//Necessary to prevent connectivity issues over HTTPS
  BindingProvider bindingProvider = (BindingProvider) getServicePort;
  bindingProvider.getRequestContext().put(BindingProvider.ENDPOINT_ADDRESS_PROPERTY, endPointUrlValue);
```

Note: The above example is for MODIS test system. For production MODIS the url will be:
"https://etr.modis.nationalgrid.com/ETR_MODIS/services/ParticipantsNGRIDOutageRequest?wsdl";

5 File Naming Convention

This section describes the file naming convention recommended for XML reports.

File Format:

<MP EIC Code> -NGET-<Report Name>-<Sequence Number>-<Revision Number>

Where

<MP EIC Code> = 16 Characters EIC Code for Market Participant

<Report Name>= 4 Characters abbreviated report name.

<Sequence Number>=8 Numeric Character Sequence Number.

<Revision Number>= 3 Numeric Character (leading zeros suppressed)

Example:

Article 7.1a Planned Unavailability for Consumption Unit (PUCU) report

17X100A100R01332-NGET-PUCU-00000001-1

6 File Errors and Reason codes

This section describes the reason codes that may be returned by National Grid MODIS, ELEXON BMRS or EMFIP in acknowledgements when submitted files contain errors.

6.1 ELEXON and EMFIP Error Message Codes

The Acks/Nacks, generated by BMRS use the standard ENTSOE Acknowledgement.xsd using the associated set of reason codes.
The Codes for Errors Messages about files that are reported by ELEXON and EMFIP can be found in the document MoP Ref13 - entso-e-code-list-v27r0 in section 3.22 StandardReasonCodeTypeList. This can be found on the ENTSOE website and is available via Referenced Documents for MoP (V2.0)
The codes are not included here to ensure the latest version is accesed.

6.2 National Grid MODIS Error Message Reason Codes

The Reason Codes for Errors Messages about files that are reported by National Grid MODIS can be found in the table below

Reason Code At the document level	
A01	Message fully accepted
A02	Message fully rejected
A03	Message contains errors at the time series level
A04	Schedule time interval incorrect
A51	Message identification or version conflict
A52	Time series missing from new version of message
A53	Receiving party incorrect
A59	Not compliant with local market rules
A94.	Document cannot be processed by receiving system
Reason code At the time series level	
A20	Time series fully rejected
A21	Time series accepted with specific time interval errors
A41	Resolution inconsistency
A50	Senders time series version conflict
A55	Time series identification conflict
A56	Corresponding time series not netted
A57	Deadline limit exceeded
A59	Not compliant with local market rules

7 Report Specifications for EMFIP

7.1 Article 7 - Information Relating to the Unavailability of Consumption Units

7.1.1 BRD ID: B0710 (A7.1a) - Planned unavailability of consumption units

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments
1	Unavailability Market Document	mRID	Unique identification of the document being exchanged within a business process flow. This identifies a given unavailability document. An Unavailability Market Document describes a specific unavailability and must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions concerning the unavailability must use the same identification	35 Characters	Yes	<MP EIC Code>-NGET-PUCU-<Sequence Number> e.g. <MP EIC Code>-NGET-PUCU-00000001	PUCU = Planned Unavailability of Consumption Unit. The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revisionNumber” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.
2	Unavailability Market Document	revisionNumber	Identification of the version that distinguishes one evolution of a document from another. The document version is used to identify a given version of a time series set for a given Period Time Interval. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version.	3 Numeric Characters	Yes	<NNN> e.g. 1	A numeric revision number should be supplied to reflect the revision/version of the document. The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revision Number” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.

3	Unavailability Market Document	Type	The coded type of a document. The document type describes the principal characteristic of the document.	3 Alphanumeric Characters	Yes	A76	A76=Load Unavailability
4	Unavailability Market Document	PROCESS.PROCESSTYPE	The process type identifies the type of processing to be carried out on the information.	3 Alphanumeric Characters	Yes	A26	A26 = Unavailability information
5	Unavailability Market Document	CREATEDDATETIME	The date and time of the creation of the document. The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	YYYY-MM-DDTHH:MM:SSZ	Yes	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp
6	Unavailability Market Document	SENDER_MARKETPARTICIPANT MRID	The Sender of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required.	3 Alphanumeric characters for Coding scheme 16 Alphanumeric characters for Sender	Yes	<Market Participant EIC Code>	Permitted codes are: “A01” for EIC coding scheme.
7	Unavailability Market Document	SENDER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the sender within the document.	3 Alphanumeric characters	Yes	A39	A39 = Data Provider
8	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MRID	The Receiver of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Receiver 3 Alphanumeric characters for Coding scheme	Yes	10X1001A1001A515	This will be National Grid EIC Code. Permitted codes are: “A01” for EIC coding scheme.
9	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the receiver within the document.	3 Alphanumeric characters	Yes	A04	A04 = System Operator or TSO(Transmission System Operator)
10	Unavailability Market Document	UNAVAILABILITY_TIME_PERIOD.TIMEINTERVAL	The start and end date and time for a given interval. --- The time interval that is associated with an electronic document and which is valid for the whole document.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-19T14:32Z End Date =e.g. 2014-03-19T15:02Z	This information provides the start and end date and time of the time interval covering the whole unavailability document.

11	Unavailability Market Document	DOCSTATUS	Identification of the condition or position of the document with regard to its standing. It is used to identify an unavailability document that has been withdrawn or cancelled. This information is only provided to indicate a cancellation of an unavailability situation. The cancelled status only applies to planned outages. The withdrawn status is only used to indicate that the outage should be removed.	3 Alphanumeric Characters	Dependent	NULL or A09 or A13	NULL=Active A09= Cancelled A13= Withdrawn Note 1: In the case of this document the term "cancelled" refers to the cancellation of a planned unavailability. The term "withdrawn" refers to an unavailability that is erroneous and has to be removed from the transparency platform. Note 2: the Doc status should only be provided in the case of the withdrawal or cancellation of an unavailability document. Note 3: For active status the current assumption is that no value will be provided.
12	Time Series Class	mRID	A unique identification within the document assigned by the sender. This must be unique for the whole document and guarantee the non-duplication of all the attributes of the time series class.	35 Alphanumeric Characters	Yes	MP-NGET-PUCU-TS-<Sequence Number >	e.g. MP-NGET-PUCU-TS-00000001
13	Time Series Class	BusinessType	The identification of the nature of the time series.	3 Alphanumeric characters	Yes	A53 or A54	A53 = Planned maintenance A54 = Forced unavailability
14	Time Series Class	BIDDINGZONE_DOMAIN.MRID	The identification of the bidding zone for which the unavailability information is being provided. A bidding zone cannot vary within an Outage Document	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	10YGB----------A	GB Bidding Zone EIC Code

15	Time Series Class	IN_DOMAIN.MRID	The identification of the domain where the energy is going for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
16	Time Series Class	OUT_DOMAIN.MRID	The identification of the domain where the energy is coming from for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
17	Time Series Class	START_DATEANDORTIME.DATE	This identifies the date of the start of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
18	Time Series Class	START_DATEANDORTIME.TIME	This identifies the time of the start of the unavailability being described in the time series.	HH:MM:SSZ	Yes	e.g. 14:00:00Z	
19	Time Series Class	END_DATEANDORTIME.DATE	This identifies the date of the end of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
20	Time Series Class	END_DATEANDORTIME.TIME	This identifies the time of the end of the unavailability being described in the time series	HH:MM:SSZ	Yes	e.g.14:30:00Z	
21	Time Series Class	QUANTITY_MEASURE_UNIT.NAME	The identification of the formal code for a measurement unit	3 Alphanumeric Characters	Yes	MAW	MAW = Megawatts

22	Time Series Class	CURVETYPE	The identification of the coded representation of the type of curve being described.	3 Alphanumeric Characters	Yes	A01 or A03	A01 = Sequential fixed size block or A03 = Variable sized Block Please note that submissions via the FTP or the Web Services will allow either of the two values (A01 or A03), but the MODIS GUI screens for manual report data entry currently restricts the value to A01.
23	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.MRID	The identification of a production unit that is affected by the unavailability	16 Alphanumeric characters for Resource Code 3 Alphanumeric characters for Coding scheme	Yes	<Consumption Unit EIC Code>	This field should be used for Consumption Unit EIC Code.
24	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.NAME	The name of the registered resource being provided.	35 Alphanumeric Characters	Yes	<BMU ID or BMU Name for Consumption Unit>	This field should be used for Consumption Unit BMU ID so that traceability could be maintained against the registered Consumption Unit on NG.
25	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.PSRTYPE	This represents the coded type of production unit resource being described	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
26	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.LOCATION.NAME	This represents the location for the production registered resource.	35 Alphanumeric Characters.	Dependent	NULL	Not used for this report.
27	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.MRID	The identification of the generation unit for which the generation information is being provided. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Generation Unit Code 3 Alphanumeric characters for Coding scheme	Dependent	NULL	Not used for this report.
28	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.NAME	This represents the name of the generation unit.	35 Alphanumeric Characters	Dependent	NULL	Not used for this report.

29	Time Series Class	PRODUCTION_REGISTERE DRESOURCE.PSRTYPE.PO WERSYSTEMRESOURCES. NOMINALP	This represents the installed generation capacity for the generation unit being described. This value shall always be provided in MW. A decimal point value may be used to express values that are inferior to the defined unit of measurement. All quantities are non-signed values. **Note**: Similar format to Item 20 above.	17 Numeric Characters including Decimal	Dependent	NULL	Not used for this report.
30	Asset_Registered Resource Class	mRID	The identification of a transmission infrastructure asset is being provided. This applied to (EIC Object Type W).	The maximum length of the asset registered resource code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	<Asset Unique identifier>	This information Used only for upload transmissions.
31	Asset_Registered Resource Class	Name	The name of the transmission infrastructure asset for which the information is being provided.	35 Alphanumeric characters	Dependent	NULL	Not used for this report.
32	Asset_Registered Resource Class	ASSET_PSRTYPE.PSRTYPE	This represents the coded identification of the type of asset being described. A04 = Production or Generation A05 = Consumption	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
33	Asset_Registered Resource Class	LOCATION.NAME	The name of the location of the asset for which the unavailability information is being provided.	35 Alphanumeric characters	Dependent	NULL	Not used for this report.

34	Series_Period Class	TIMEINTERVAL	The start and end date and time for a given interval.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-16T12:30Z End Date =e.g. 2014-03-16T13:00Z	
35	Series_Period Class	RESOLUTION	Definition of the number of units of time that compose an individual step within a period.	The Resolution is expressed in compliance with ISO 8601	Yes	PT60M or PT30M or PT15M or PT1M	PT60M if the resolution is hourly PT30M if the resolution is half hourly PT15M if the resolution is quarter hourly PT1M if the resolution is for a minute.
36	Point Class	Position	A sequential value representing the relative position within a given time interval.	The maximum number of characters is 6.	Yes	<Numeric Value> e.g. 1	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed.
37	Point Class	Quantity	The principal quantity identified for a point. This information defines the quantity of the load or generation that is taken from or put into the area for the position within the interval period.	The maximum length of this information is 17 numeric characters (decimal mark included).	Yes	<Numeric Value> e.g. 100.05	This value is identical to unavailability consumption capacity in this context.
38	Reason Class	Code	The reason code identifying that complementary information about unavailability or planned maintenance.	3 alphanumeric characters.	Yes	A95 or B18 or B19 or B20	A95: complementary information (this requires the use of the ReasonText attribute.) B18 = Failure B19 = Foreseen Maintenance B20 = Shutdown
39	Reason Class	Text	This provides additional textual information concerning the unavailability which may be provided as necessary	512 alphanumeric characters.	Yes	<Reason Text>	

7.1.2 BRD ID: B0720 (A7.1b) - Changes In Actual Availability of Consumption Units

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments
1	Unavailability Market Document	mRID	Unique identification of the document being exchanged within a business process flow. This identifies a given unavailability document. An Unavailability Market Document describes a specific unavailability and must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions concerning the unavailability must use the same identification	35 Characters	Yes	<MP EIC Code>-NGET-AACU-<Sequence Number> e.g. <MP EIC Code>-NGET-AACU-00000001	AACU = Actual Availability of Consumption Unit The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revisionNumber” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.
2	Unavailability Market Document	revisionNumber	Identification of the version that distinguishes one evolution of a document from another. The document version is used to identify a given version of a time series set for a given Period Time Interval. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version.	3 Numeric Characters	Yes	<NNN> e.g. 1	A numeric revision number should be supplied to reflect the revision/version of the document. The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revision Number” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.

3	Unavailability Market Document	Type	The coded type of a document. The document type describes the principal characteristic of the document.	3 Alphanumeric Characters	Yes	A76	A76=Load Unavailability
4	Unavailability Market Document	PROCESS.PROCESSTYPE	The process type identifies the type of processing to be carried out on the information.	3 Alphanumeric Characters	Yes	A26	A26 = Unavailability information
5	Unavailability Market Document	CREATEDDATETIME	The date and time of the creation of the document. The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	YYYY-MM-DDTHH:MM:SSZ	Yes	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp
6	Unavailability Market Document	SENDER_MARKETPARTICIPANT MRID	The Sender of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required.	3 Alphanumeric characters for Coding scheme 16 Alphanumeric characters for Sender	Yes	<Market Participant EIC Code>	Permitted codes are: “A01” for EIC coding scheme.
7	Unavailability Market Document	SENDER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the sender within the document.	3 Alphanumeric characters	Yes	A39	A39 = Data Provider
8	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MRID	The Receiver of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Receiver 3 Alphanumeric characters for Coding scheme	Yes	10X1001A1001A515	This will be National Grid EIC Code.
9	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the receiver within the document.	3 Alphanumeric characters	Yes	A04	A04 = System Operator or TSO(Transmission System Operator)
10	Unavailability Market Document	UNAVAILABILITY_TIME_PERIOD.TIMEINTERVAL	The start and end date and time for a given interval. --- The time interval that is associated with an electronic document and which is valid for the whole document.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-19T14:32Z End Date =e.g. 2014-03-19T15:02Z	This information provides the start and end date and time of the time interval covering the whole unavailability document.

11	Unavailability Market Document	DOCSTATUS	Identification of the condition or position of the document with regard to its standing. It is used to identify an unavailability document that has been withdrawn or cancelled. This information is only provided to indicate a cancellation of an unavailability situation. The cancelled status only applies to planned outages. The withdrawn status is only used to indicate that the outage should be removed.	3 Alphanumeric Characters	Dependent	NULL or A09 or A13	NULL = Active A09= Cancelled A13= Withdrawn Note 1: In the case of this document the term "cancelled" refers to the cancellation of a planned unavailability. The term "withdrawn" refers to an unavailability that is erroneous and has to be removed from the transparency platform. Note 2: the Doc status should only be provided in the case of the withdrawal or cancellation of an unavailability document. Note 3: For active status the current assumption is that no value will be provided.
12	Time Series Class	mRID	A unique identification within the document assigned by the sender. This must be unique for the whole document and guarantee the non-duplication of all the attributes of the time series class.	35 Alphanumeric Characters	Yes	MP-NGET-AACU-TS-< Sequence Number > e.g. MP-NGET-AACU-TS-00000001	AACU = Actual Availability of Consumption Unit
13	Time Series Class	BusinessType	The identification of the nature of the time series.	3 Alphanumeric characters	Yes	A53 or A54	A53 = Planned maintenance A54 = Forced unavailability
14	Time Series Class	BIDDINGZONE_DOMAIN.MRID	The identification of the bidding zone for which the unavailability information is being provided. A bidding zone cannot vary within an Outage Document	3 Alphanumeric characters	Dependent	10YGB----------A	GB Bidding Zone EIC Code

15	Time Series Class	IN_DOMAIN.MRID	The identification of the domain where the energy is going for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
16	Time Series Class	OUT_DOMAIN.MRID	The identification of the domain where the energy is coming from for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
17	Time Series Class	START_DATEANDORTIME.DATE	This identifies the date of the start of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
18	Time Series Class	START_DATEANDORTIME.TIME	This identifies the time of the start of the unavailability being described in the time series.	HH:MM:SSZ	Yes	e.g. 14:00:00Z	
19	Time Series Class	END_DATEANDORTIME.DATE	This identifies the date of the end of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
20	Time Series Class	END_DATEANDORTIME.TIME	This identifies the time of the end of the unavailability being described in the time series	HH:MM:SSZ	Yes	e.g. 14:30:00Z	
21	Time Series Class	QUANTITY_MEASURE_UNIT.NAME	The identification of the formal code for a measurement unit	3 Alphanumeric Characters	Yes	MAW	MAW = Megawatts

22	Time Series Class	CURVETYPE	The identification of the coded representation of the type of curve being described.	3 Alphanumeric Characters	Yes	A01 or A03	A01 = Sequential fixed size block or A03 = Variable sized Block Please note that submissions via the FTP or the Web Services will allow either of the two values (A01 or A03), but the MODIS GUI screens for manual report data entry currently restricts the value to A01.
23	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.MRID	The identification of a production unit that is affected by the unavailability	16 Alphanumeric characters for Resource Code 3 Alphanumeric characters for Coding scheme	Yes	<Consumption Unit EIC Code>	This field should be used for Consumption Unit EIC Code.
24	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.NAME	The name of the registered resource being provided.	35 Alphanumeric Characters	Yes	<BMU ID or BMU Name for Consumption Unit>	This field should be used for Consumption Unit BMU ID so that traceability could be maintained against the registered Consumption Unit in NG.
25	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.PSRTYPE	This represents the coded type of production unit resource being described	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
26	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.LOCATION.NAME	This represents the location for the production registered resource.	35 Alphanumeric Characters.	Dependent	NULL	Not used for this report.
27	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.MRID	The identification of the generation unit for which the generation information is being provided. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Generation Unit Code 3 Alphanumeric characters for Coding scheme	Dependent	NULL	Not used for this report.
28	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.NAME	This represents the name of the generation unit.	35 Alphanumeric Characters	Dependent	NULL	Not used for this report.

29	Time Series Class	PRODUCTION_REGISTERE DRESOURCE.PSRTYPE.PO WERSYSTEMRESOURCES. NOMINALP	This represents the installed generation capacity for the generation unit being described. This value shall always be provided in MW. A decimal point value may be used to express values that are inferior to the defined unit of measurement. All quantities are non-signed values. **Note**: Similar format to Item 20 above.	17 Numeric Characters including Decimal	Dependent	NULL	Not used for this report.
30	Asset_Registered Resource Class	mRID	The identification of a transmission infrastructure asset is being provided. This applied to (EIC Object Type W).	The maximum length of the asset registered resource code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	<Asset Identifier>	This information Used only for upload transmissions
31	Asset_Registered Resource Class	Name	The name of the transmission infrastructure asset for which the information is being provided.	35 Alphanumeric characters	Dependent	NULL	Not used for this report.
32	Asset_Registered Resource Class	ASSET_PSRTYPE.PSRTYPE	This represents the coded identification of the type of asset being described. A04 = Production or Generation A05 = Consumption	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
33	Asset_Registered Resource Class	LOCATION.NAME	The name of the location of the asset for which the unavailability information is being provided.	35 Alphanumeric characters	Dependent	NULL	Not used for this report.

34	Series_Period Class	TIMEINTERVAL	The start and end date and time for a given interval.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-16T12:30Z End Date =e.g. 2014-03-16T13:00Z	
35	Series_Period Class	RESOLUTION	Definition of the number of units of time that compose an individual step within a period.	The Resolution is expressed in compliance with ISO 8601	Yes	PT60M or PT30M or PT15M or PT1M	PT60M if the resolution is hourly PT30M if the resolution is half hourly PT15M if the resolution is quarter hourly PT1M if the resolution is for a minute.
36	Point Class	Position	A sequential value representing the relative position within a given time interval.	The maximum number of characters is 6.	Yes	<Numeric Value> e.g. 1	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed.
37	Point Class	Quantity	The principal quantity identified for a point. This information defines the quantity of the load or generation that is taken from or put into the area for the position within the interval period.	The maximum length of this information is 17 numeric characters (decimal mark included).	Yes	<Numeric Value> e.g. 100.05	This value is identical to unavailability consumption capacity in this context.
38	Reason Class	Code	The reason code identifying that complementary information about unavailability or planned maintenance.	3 alphanumeric characters.	Yes	A95 or B18 or B19 or B20	A95: complementary information (this requires the use of the ReasonText attribute.) B18 = Failure B19 = Foreseen Maintenance B20 = Shutdown
39	Reason Class	Text	This provides additional textual information concerning the unavailability which may be provided as necessary	512 alphanumeric characters.	Yes	<Reason Text>	

7.2 Article 10 – Info Relating to the Unavailability of Transmission Infrastructure

7.2.1 BRD ID: B1030 (A10.1c) - Changes In Actual Availability of Off-Shore Grid Infrastructure

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments
1	Unavailability Market Document	mRID	Unique identification of the document being exchanged within a business process flow. This identifies a given unavailability document. An Unavailability Market Document describes a specific unavailability and must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions concerning the unavailability must use the same identification	35 Characters	Yes	<MP EIC Code>-NGET-AAOG-<Sequence Number> e.g. <MP EIC Code>-NGET-AAOG-00000001	AAOG = Actual Availability of Offshore Grid Infrastructure The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revisionNumber” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.
2	Unavailability Market Document	revisionNumber	Identification of the version that distinguishes one evolution of a document from another. The document version is used to identify a given version of a time series set for a given Period Time Interval. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version.	3 Numeric Characters	Yes	<NNN> e.g. 1	A numeric revision number should be supplied to reflect the revision/version of the document. The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revision Number” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.

3	Unavailability Market Document	Type	The coded type of a document. The document type describes the principal characteristic of the document.	3 Alphanumeric Characters	Yes	A79	A79= Offshore grid infrastructure unavailability
4	Unavailability Market Document	PROCESS.PROCESSTYPE	The process type identifies the type of processing to be carried out on the information.	3 Alphanumeric Characters	Yes	A26	A26 = Unavailability information
5	Unavailability Market Document	CREATEDDATETIME	The date and time of the creation of the document. The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	YYYY-MM-DDTHH:MM:SSZ	Yes	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp
6	Unavailability Market Document	SENDER_MARKETPARTICIPANT MRID	The Sender of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required.	3 Alphanumeric characters for Coding scheme 16 Alphanumeric characters for Sender	Yes	<Market Participant EIC Code>	Permitted codes are: “A01” for EIC coding scheme.
7	Unavailability Market Document	SENDER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the sender within the document	3 Alphanumeric characters	Yes	A39	A39 = Data Provider
8	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MRID	The Receiver of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Receiver 3 Alphanumeric characters for Coding scheme	Yes	10X1001A1001A515	This will be National Grid EIC Code.
9	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the receiver within the document	3 Alphanumeric characters	Yes	A04	A04 = System Operator or TSO(Transmission System Operator)
10	Unavailability Market Document	UNAVAILABILITY_TIME_PERIOD.TIMEINTERVAL	The start and end date and time for a given interval. --- The time interval that is associated with an electronic document and which is valid for the whole document.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-19T14:32Z End Date =e.g. 2014-03-19T15:02Z	This information provides the start and end date and time of the time interval covering the whole unavailability document.

11	Unavailability Market Document	DOCSTATUS	Identification of the condition or position of the document with regard to its standing. It is used to identify an unavailability document that has been withdrawn or cancelled. This information is only provided to indicate a cancellation of an unavailability situation. The cancelled status only applies to planned outages. The withdrawn status is only used to indicate that the outage should be removed.	3 Alphanumeric Characters	Dependent	NULL or A09 or A13	NULL = Active A09= Cancelled A13= Withdrawn Note 1: In the case of this document the term "cancelled" refers to the cancellation of a planned unavailability. The term "withdrawn" refers to an unavailability that is erroneous and has to be removed from the transparency platform. Note 2: the Doc status should only be provided in the case of the withdrawal or cancellation of an unavailability document. Note 3: For active status the current assumption is that no value will be provided.
12	Time Series Class	mRID	A unique identification within the document assigned by the sender. This must be unique for the whole document and guarantee the non-duplication of all the attributes of the time series class.	35 Alphanumeric Characters	Yes	MP-NGET-AAOG-TS-< Sequence Number > e.g. MP-NGET-AAOG-TS-00000001	AAOG = Actual Availability of Offshore Grid Infrastructure
13	Time Series Class	BusinessType	The identification of the nature of the time series.	3 Alphanumeric characters	Yes	A54	A54 = Forced unavailability
14	Time Series Class	BIDDINGZONE_DOMAIN.MRID	The identification of the bidding zone for which the unavailability information is being provided. A bidding zone cannot vary within an Outage Document	3 Alphanumeric characters	Dependent	10YGB----------A	GB Bidding Zone EIC Code

15	Time Series Class	IN_DOMAIN.MRID	The identification of the domain where the energy is going for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
16	Time Series Class	OUT_DOMAIN.MRID	The identification of the domain where the energy is coming from for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
17	Time Series Class	START_DATEANDORTIME.DATE	This identifies the date of the start of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
18	Time Series Class	START_DATEANDORTIME.TIME	This identifies the time of the start of the unavailability being described in the time series.	HH:MM:SSZ	Yes	e.g. 14:00:00Z	
19	Time Series Class	END_DATEANDORTIME.DATE	This identifies the date of the end of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
20	Time Series Class	END_DATEANDORTIME.TIME	This identifies the time of the end of the unavailability being described in the time series	HH:MM:SSZ	Yes	e.g. 14:30:00Z	
21	Time Series Class	QUANTITY_MEASURE_UNIT.NAME	The identification of the formal code for a measurement unit	3 Alphanumeric Characters	Yes	MAW	MAW = Megawatts

22	Time Series Class	CURVETYPE	The identification of the coded representation of the type of curve being described.	3 Alphanumeric Characters	Yes	A01 or A03	A01 = Sequential fixed size block or A03 = Variable sized Block Please note that submissions via the FTP or the Web Services will allow either of the two values (A01 or A03), but the MODIS GUI screens for manual report data entry currently restricts the value to A01.
23	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.MRID	The identification of a production unit that is affected by the unavailability	16 Alphanumeric characters for Resource Code 3 Alphanumeric characters for Coding scheme	Yes	<Offshore Grid Infrastructure EIC Code>	This field should be used for EIC Code for Offshore Grid Infrastructure.
24	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.NAME	The name of the registered resource being provided.	35 Alphanumeric Characters	Yes	<Offshore Grid Infrastructure BMU ID or BMU Name>	This field should be used for BMU ID so that traceability could be maintained against the registered Unit in NG.
25	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.PSRTYPE	This represents the coded type of production unit resource being described	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
26	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.LOCATION.NAME	This represents the location for the production registered resource.	35 Alphanumeric Characters.	Dependent	NULL	Not used for this report.
27	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.MRID	The identification of the generation unit for which the generation information is being provided. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Generation Unit Code 3 Alphanumeric characters for Coding scheme	Dependent	NULL	Not used for this report.
28	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.NAME	This represents the name of the generation unit.	35 Alphanumeric Characters	Dependent	NULL	Not used for this report.

29	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRESOURCES.NOMINALP	This represents the installed generation capacity for the generation unit being described. This value shall always be provided in MW. A decimal point value may be used to express values that are inferior to the defined unit of measurement. All quantities are non-signed values. **Note**: Similar format to Item 20 above.	17 Numeric Characters including Decimal	Dependent	150.55	This represents the nominal power of the generation unit.
30	Asset_Registered Resource Class	mRID	The identification of a transmission infrastructure asset is being provided. This applied to (EIC Object Type W).	The maximum length of the asset registered resource code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Yes	<Offshore Grid Infrastructure Asset EIC Code>	This information Used only for upload transmissions
31	Asset_Registered Resource Class	Name	The name of the transmission infrastructure asset for which the information is being provided.	35 Alphanumeric characters	Yes	<Offshore Grid Asset Name>	Used only for download transmissions Not used for upload transmissions.
32	Asset_Registered Resource Class	ASSET_PSRTYPE.PSRTYPE	This represents the coded identification of the type of asset being described. A04 = Production or Generation A05 = Consumption	3 Alphanumeric characters	Dependent	A04 or A05	Used only for download transmissions Not used for upload transmissions
33	Asset_Registered Resource Class	LOCATION.NAME	The name of the location of the asset for which the unavailability information is being provided.	35 Alphanumeric characters	Dependent	GB	Used only for download transmissions Not used for upload transmissions

34	Series_Period Class	TIMEINTERVAL	The start and end date and time for a given interval.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-16T12:30Z End Date =e.g. 2014-03-16T13:00Z	
35	Series_Period Class	RESOLUTION	Definition of the number of units of time that compose an individual step within a period.	The Resolution is expressed in compliance with ISO 8601	Yes	PT60M or PT30M or PT15M or PT1M	PT60M if the resolution is hourly PT30M if the resolution is half hourly PT15M if the resolution is quarter hourly PT1M if the resolution is for a minute.
36	Point Class	Position	A sequential value representing the relative position within a given time interval.	The maximum number of characters is 6.	Yes	<Numeric Value> e.g. 1	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed.
37	Point Class	Quantity	The principal quantity identified for a point. This information defines the quantity of the load or generation that is taken from or put into the area for the position within the interval period.	The maximum length of this information is 17 numeric characters (decimal mark included).	Yes	<Numeric Value> e.g. 100.05	This value is identical to unavailability consumption capacity in this context.
38	Reason Class	Code	The reason code identifying that complementary information about unavailability or planned maintenance.	3 alphanumeric characters.	Yes	A95 or B18 or B19 or B20	A95: complementary information (this requires the use of the ReasonText attribute.) B18 = Failure B19 = Foreseen Maintenance B20 = Shutdown
39	Reason Class	Text	This provides additional textual information concerning the unavailability which may be provided as necessary	512 alphanumeric characters.	Yes	<Reason Text>	

7.3 Article 15 – Info Relating to the Unavailability of Generation and Production Units

7.3.1 BRD ID: B1510 (A15.1a) - Planned Unavailability of Generation Units

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments
1	Unavailability Market Document	mRID	Unique identification of the document being exchanged within a business process flow. This identifies a given unavailability document. An Unavailability Market Document describes a specific unavailability and must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions concerning the unavailability must use the same identification	35 Characters	Yes	<MP EIC Code>-NGET-PUGU-<Sequence Number> e.g. <MP EIC Code>-NGET-PUGU-00000001	PUGU = Planned Unavailability of Generation Unit The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revisionNumber” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.
2	Unavailability Market Document	revisionNumber	Identification of the version that distinguishes one evolution of a document from another. The document version is used to identify a given version of a time series set for a given Period Time Interval. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version.	3 Numeric Characters	Yes	<NNN> e.g. 1	A numeric revision number should be supplied to reflect the revision/version of the document. The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revision Number” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.

3	Unavailability Market Document	Type	The coded type of a document. The document type describes the principal characteristic of the document.	3 Alphanumeric Characters	Yes	A80	A80=Generation Unavailability
4	Unavailability Market Document	PROCESS.PROCESSTYPE	The process type identifies the type of processing to be carried out on the information.	3 Alphanumeric Characters	Yes	A26	A26 = Unavailability information
5	Unavailability Market Document	CREATEDDATETIME	The date and time of the creation of the document. The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	YYYY-MM-DDTHH:MM:SSZ	Yes	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp
6	Unavailability Market Document	SENDER_MARKETPARTICIPANT MRID	The Sender of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. Permitted codes are: “A01” for EIC coding scheme.	3 Alphanumeric characters for Coding scheme 16 Alphanumeric characters for Sender	Yes	<Market Participant EIC Code>	
7	Unavailability Market Document	SENDER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the sender within the document.	3 Alphanumeric characters	Yes	A39	A39 = Data Provider
8	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MRID	The Receiver of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Receiver 3 Alphanumeric characters for Coding scheme	Yes	10X1001A1001A515	This will be National Grid EIC Code.
9	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the receiver within the document	3 Alphanumeric characters	Yes	A04	A04 = System Operator or TSO(Transmission System Operator)
10	Unavailability Market Document	UNAVAILABILITY_TIME_PERIOD.TIMEINTERVAL	The start and end date and time for a given interval. --- The time interval that is associated with an electronic document and which is valid for the whole document.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-19T14:32Z End Date =e.g. 2014-03-19T15:02Z	This information provides the start and end date and time of the time interval covering the whole unavailability document.

11	Unavailability Market Document	DOCSTATUS	Identification of the condition or position of the document with regard to its standing. It is used to identify an unavailability document that has been withdrawn or cancelled. This information is only provided to indicate a cancellation of an unavailability situation. The cancelled status only applies to planned outages. The withdrawn status is only used to indicate that the outage should be removed.	3 Alphanumeric Characters	Dependent	NULL or A09 or A13	NULL = Active A09= Cancelled A13= Withdrawn Note 1: In the case of this document the term "cancelled" refers to the cancellation of a planned unavailability. The term "withdrawn" refers to an unavailability that is erroneous and has to be removed from the transparency platform. Note 2: the Doc status should only be provided in the case of the withdrawal or cancellation of an unavailability document. Note 3: For active status the current assumption is that no value will be provided.
12	Time Series Class	mRID	A unique identification within the document assigned by the sender. This must be unique for the whole document and guarantee the non-duplication of all the attributes of the time series class.	35 Alphanumeric Characters	Yes	MP-NGET-PUGU-TS-< Sequence Number> e.g. MP-NGET-PUGU-TS-00000001	PUGU=Planned Unavailability of Generation Unit
13	Time Series Class	BusinessType	The identification of the nature of the time series.	3 Alphanumeric characters	Yes	A53 or A54	A53 = Planned maintenance A54 = Forced unavailability
14	Time Series Class	BIDDINGZONE_DOMAIN.MRID	The identification of the bidding zone for which the unavailability information is being provided. A bidding zone cannot vary within an Outage Document	3 Alphanumeric characters	Dependent	10YGB----------A	GB Bidding Zone EIC Code

15	Time Series Class	IN_DOMAIN.MRID	The identification of the domain where the energy is going for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
16	Time Series Class	OUT_DOMAIN.MRID	The identification of the domain where the energy is coming from for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
17	Time Series Class	START_DATEANDORTIME.DATE	This identifies the date of the start of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
18	Time Series Class	START_DATEANDORTIME.TIME	This identifies the time of the start of the unavailability being described in the time series.	HH:MM:SSZ	Yes	e.g. 14:00:00Z	
19	Time Series Class	END_DATEANDORTIME.DATE	This identifies the date of the end of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
20	Time Series Class	END_DATEANDORTIME.TIME	This identifies the time of the end of the unavailability being described in the time series	HH:MM:SSZ	Yes	e.g. 14:30:00Z	
21	Time Series Class	QUANTITY_MEASURE_UNIT.NAME	The identification of the formal code for a measurement unit	3 Alphanumeric Characters	Yes	MAW	MAW = Megawatts

22	Time Series Class	CURVETYPE	The identification of the coded representation of the type of curve being described.	3 Alphanumeric Characters	Yes	A01 or A03	A01 = Sequential fixed size block or A03 = Variable sized Block Please note that submissions via the FTP or the Web Services will allow either of the two values (A01 or A03), but the MODIS GUI screens for manual report data entry currently restricts the value to A01.
23	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.MRID	The identification of a production unit that is affected by the unavailability	16 Alphanumeric characters for Resource Code 3 Alphanumeric characters for Coding scheme	Dependent	<Production Unit EIC Code>	Production Unit EIC Code as registered with Market Participant
24	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.NAME	The name of the registered resource being provided.	35 Alphanumeric Characters	Dependent	<Production Unit name >	It is used only for download transmissions but not for upload transmissions. This field should be used for BMU ID so that traceability could be maintained against the registered Unit in NG.
25	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.PSRTYPE	This represents the coded type of production unit resource being described	3 Alphanumeric characters	Dependent	A04 or A05	It is used only for download transmissions but not for upload transmissions. I
26	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.LOCATION.NAME	This represents the location for the production registered resource.	35 Alphanumeric Characters.	Dependent	GB	It is used only for download transmissions but not for upload transmissions.

27	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.MRID	The identification of the generation unit for which the generation information is being provided. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Generation Unit Code 3 Alphanumeric characters for Coding scheme	Dependent	<Generating Unit EIC Code>	Generating Unit Id as registered with Market Participant
28	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.NAME	This represents the name of the generation unit.	35 Alphanumeric Characters	Dependent	<Generating Unit BMU ID >	Gen Unit BMU ID.- This field should be used for BMU ID so that traceability could be maintained against the registered Unit in NG. It is used only for download transmissions but not for upload transmissions.
29	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRESOURCES.NOMINALP	This represents the installed generation capacity for the generation unit being described. This value shall always be provided in MW. A decimal point value may be used to express values that are inferior to the defined unit of measurement. All quantities are non-signed values. **Note**: Similar format to Item 20 above.	17 Numeric Characters including Decimal	Dependent	200.34	It is used only for download transmissions but not for upload transmissions.
30	Asset_Registered Resource Class	mRID	The identification of a transmission infrastructure asset is being provided.	The maximum length of the asset registered resource code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
31	Asset_Registered Resource Class	Name	The name of the transmission infrastructure asset for which the information is being provided.	35 Alphanumeric characters	Yes	NULL	Not used for this report.

32	Asset_Registered Resource Class	ASSET_PSRTYPE.PSRTYPE	This represents the coded identification of the type of asset being described. A04 = Production or Generation A05 = Consumption	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
33	Asset_Registered Resource Class	LOCATION.NAME	The name of the location of the asset for which the unavailability information is being provided.	35 Alphanumeric characters	Dependent	NULL	Not used for this report.
34	Series_Period Class	TIMEINTERVAL	The start and end date and time for a given interval.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-16T12:30Z End Date =e.g. 2014-03-16T13:00Z	
35	Series_Period Class	RESOLUTION	Definition of the number of units of time that compose an individual step within a period.	The Resolution is expressed in compliance with ISO 8601	Yes	PT60M or PT30M or PT15M or PT1M	PT60M if the resolution is hourly PT30M if the resolution is half hourly PT15M if the resolution is quarter hourly PT1M if the resolution is for a minute.
36	Point Class	Position	A sequential value representing the relative position within a given time interval.	The maximum number of characters is 6.	Yes	<Numeric Value> e.g. 1	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed.
37	Point Class	Quantity	The principal quantity identified for a point. This information defines the quantity of the load or generation that is taken from or put into the area for the position within the interval period.	The maximum length of this information is 17 numeric characters (decimal mark included).	Yes	<Numeric Value> e.g. 100.05	This value is identical to unavailability consumption capacity in this context.

38	Reason Class	Code	The reason code identifying that complementary information about unavailability or planned maintenance.	3 alphanumeric characters.	Yes	A95 or B18 or B19 or B20	A95: complementary information (this requires the use of the ReasonText attribute.) B18 = Failure B19 = Foreseen Maintenance B20 = Shutdown
39	Reason Class	Text	This provides additional textual information concerning the unavailability which may be provided as necessary	512 alphanumeric characters.	Yes	<Reason Text>	

7.3.2 BRD ID: B1520 (A15.1b) - Changes In Actual Availability of Generation Units

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments
1	Unavailability Market Document	mRID	Unique identification of the document being exchanged within a business process flow. This identifies a given unavailability document. An Unavailability Market Document describes a specific unavailability and must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions concerning the unavailability must use the same identification	35 Characters	Yes	<MP EIC Code>-NGET-AAGU-<Sequence Number> e.g. <MP EIC Code>-NGET-AAGU-00000001	AAGU = Actual Availability of Generation Unit The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revisionNumber” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.

2	Unavailability Market Document	revisionNumber	Identification of the version that distinguishes one evolution of a document from another. The document version is used to identify a given version of a time series set for a given Period Time Interval. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version.	3 Numeric Characters	Yes	<NNN> e.g. 1	A numeric revision number should be supplied to reflect the revision/version of the document. The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revision Number” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.
3	Unavailability Market Document	Type	The coded type of a document. The document type describes the principal characteristic of the document.	3 Alphanumeric Characters	Yes	A80	A80=Generation Unavailability
4	Unavailability Market Document	PROCESS.PROCESSTYPE	The process type identifies the type of processing to be carried out on the information.	3 Alphanumeric Characters	Yes	A26	A26 = Unavailability information
5	Unavailability Market Document	CREATEDDATETIME	The date and time of the creation of the document. The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	YYYY-MM-DDTHH:MM:SSZ	Yes	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp
6	Unavailability Market Document	SENDER_MARKETPARTICIPANT MRID	The Sender of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. Permitted codes are: “A01” for EIC coding scheme.	3 Alphanumeric characters for Coding scheme 16 Alphanumeric characters for Sender	Yes	<Market Participant EIC Code>	
7	Unavailability Market Document	SENDER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the sender within the document.	3 Alphanumeric characters	Yes	A39	A39 = Data Provider

8	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MRID	The Receiver of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Receiver 3 Alphanumeric characters for Coding scheme	Yes	10X1001A1001A515	This will be National Grid EIC Code.
9	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the receiver within the document.	3 Alphanumeric characters	Yes	A04	A04 = System Operator or TSO(Transmission System Operator)
10	Unavailability Market Document	UNAVAILABILITY_TIME_PERIOD.TIMEINTERVAL	The start and end date and time for a given interval. --- The time interval that is associated with an electronic document and which is valid for the whole document.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-19T14:32Z End Date =e.g. 2014-03-19T15:02Z	This information provides the start and end date and time of the time interval covering the whole unavailability document.
11	Unavailability Market Document	DOCSTATUS	Identification of the condition or position of the document with regard to its standing. It is used to identify an unavailability document that has been withdrawn or cancelled. This information is only provided to indicate a cancellation of an unavailability situation. The cancelled status only applies to planned outages. The withdrawn status is only used to indicate that the outage should be removed.	3 Alphanumeric Characters	Dependent	NULL or A09 or A13	NULL = Active A09= Cancelled A13= Withdrawn Note 1: In the case of this document the term “cancelled” refers to the cancellation of a planned unavailability. The term “withdrawn” refers to an unavailability that is erroneous and has to be removed from the transparency platform. Note 2: the Doc status should only be provided in the case of the withdrawal or cancellation of an unavailability document. Note 3: For active status the current assumption is that no value will be provided.

12	Time Series Class	mRID	A unique identification within the document assigned by the sender. This must be unique for the whole document and guarantee the non-duplication of all the attributes of the time series class.	35 Alphanumeric Characters	Yes	MP-NGET-AAGU-TS-< Sequence Number> e.g. MP-NGET-AAGU-TS-00000001	AAGU=Actual Availability of Generation Unit
13	Time Series Class	BusinessType	The identification of the nature of the time series.	3 Alphanumeric characters	Yes	A53 or A54	A53 = Planned maintenance A54 = Forced unavailability
14	Time Series Class	BIDDINGZONE_DOMAIN.MRID	The identification of the bidding zone for which the unavailability information is being provided. A bidding zone cannot vary within an Outage Document	3 Alphanumeric characters	Dependent	10YGB----------A	GB Bidding Zone EIC Code
15	Time Series Class	IN_DOMAIN.MRID	The identification of the domain where the energy is going for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
16	Time Series Class	OUT_DOMAIN.MRID	The identification of the domain where the energy is coming from for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.

17	Time Series Class	START_DATEANDORTIME.DATE	This identifies the date of the start of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
18	Time Series Class	START_DATEANDORTIME.TIME	This identifies the time of the start of the unavailability being described in the time series.	HH:MM:SSZ	Yes	e.g. 14:00:00Z	
19	Time Series Class	END_DATEANDORTIME.DATE	This identifies the date of the end of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
20	Time Series Class	END_DATEANDORTIME.TIME	This identifies the time of the end of the unavailability being described in the time series	HH:MM:SSZ	Yes	e.g. 14:30:00Z	
21	Time Series Class	QUANTITY_MEASURE_UNIT.NAME	The identification of the formal code for a measurement unit	3 Alphanumeric Characters	Yes	MAW	MAW = Megawatts
22	Time Series Class	CURVETYPE	The identification of the coded representation of the type of curve being described.	3 Alphanumeric Characters	Yes	A01 or A03	A01 = Sequential fixed size block or A03 = Variable sized Block Please note that submissions via the FTP or the Web Services will allow either of the two values (A01 or A03), but the MODIS GUI screens for manual report data entry currently restricts the value to A01.
23	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.MRID	The identification of a production unit that is affected by the unavailability	16 Alphanumeric characters for Resource Code 3 Alphanumeric characters for Coding scheme	Dependent	<Production Unit EIC Code>	Production Unit EIC Code as registered with Market Participant

24	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.NAME	The name of the registered resource being provided.	35 Alphanumeric Characters	Dependent	<Production Unit BMU ID >	It is used only for download transmissions but not for upload transmissions. This field should be used for BMU ID so that traceability could be maintained against the registered Unit in NG.
25	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.PSRTYPE	This represents the coded type of production unit resource being described	3 Alphanumeric characters	Dependent	A04 or A05	It is used only for download transmissions but not for upload transmissions. I
26	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.LOCATION.NAME	This represents the location for the production registered resource.	35 Alphanumeric Characters.	Dependent	GB	It is used only for download transmissions but not for upload transmissions.
27	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.MRID	The identification of the generation unit for which the generation information is being provided. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Generation Unit Code 3 Alphanumeric characters for Coding scheme	Dependent	<Generating Unit EIC Code>	Generating Unit Id as registered with Market Participant
28	Time Series Class	PRODUCTION_REGISTEREDRESOURCE. PSRTYPE.POWERSYSTEMRECOURCES.NAME	This represents the name of the generation unit.	35 Alphanumeric Characters	Dependent	<Generating Unit BMU ID or BMU Name>	Gen Unit BMU ID. This field should be used for BMU ID so that traceability could be maintained against the registered Unit in NG.. It is used only for download transmissions but not for upload transmissions.

29	Time Series Class	PRODUCTION_REGISTERE DRESOURCE.PSRTYPE.PO WERSYSTEMRESOURCES. NOMINALP	This represents the installed generation capacity for the generation unit being described. This value shall always be provided in MW. A decimal point value may be used to express values that are inferior to the defined unit of measurement. All quantities are non-signed values. **Note**: Similar format to Item 20 above.	17 Numeric Characters including Decimal	Dependent	200.34	It is used only for download transmissions but not for upload transmissions.
30	Asset_Registered Resource Class	mRID	The identification of a transmission infrastructure asset is being provided.	The maximum length of the asset registered resource code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
31	Asset_Registered Resource Class	Name	The name of the transmission infrastructure asset for which the information is being provided.	35 Alphanumeric characters	Yes	NULL	Not used for this report.
32	Asset_Registered Resource Class	ASSET_PSRTYPE.PSRTYPE	This represents the coded identification of the type of asset being described. A04 = Production or Generation A05 = Consumption	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
33	Asset_Registered Resource Class	LOCATION.NAME	The name of the location of the asset for which the unavailability information is being provided.	35 Alphanumeric characters	Dependent	NULL	Not used for this report.

34	Series_Period Class	TIMEINTERVAL	The start and end date and time for a given interval.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-16T12:30Z End Date =e.g. 2014-03-16T13:00Z	
35	Series_Period Class	RESOLUTION	Definition of the number of units of time that compose an individual step within a period.	The Resolution is expressed in compliance with ISO 8601	Yes	PT60M or PT30M or PT15M or PT1M	PT60M if the resolution is hourly PT30M if the resolution is half hourly PT15M if the resolution is quarter hourly PT1M if the resolution is for a minute.
36	Point Class	Position	A sequential value representing the relative position within a given time interval.	The maximum number of characters is 6.	Yes	<Numeric Value> e.g. 1	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed.
37	Point Class	Quantity	The principal quantity identified for a point. This information defines the quantity of the load or generation that is taken from or put into the area for the position within the interval period.	The maximum length of this information is 17 numeric characters (decimal mark included).	Yes	<Numeric Value> e.g. 100.05	This value is identical to unavailability consumption capacity in this context.
38	Reason Class	Code	The reason code identifying that complementary information about unavailability or planned maintenance.	3 alphanumeric characters.	Yes	A95 or B18 or B19 or B20	A95: complementary information (this requires the use of the ReasonText attribute.) B18 = Failure B19 = Foreseen Maintenance B20 = Shutdown
39	Reason Class	Text	This provides additional textual information concerning the unavailability which may be provided as necessary	512 alphanumeric characters.	Yes	<Reason Text>	

7.3.3 BRD ID: B1530 (A15.1c) - Planned unavailability of production units

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments
1	Unavailability Market Document	mRID	Unique identification of the document being exchanged within a business process flow. This identifies a given unavailability document. An Unavailability Market Document describes a specific unavailability and must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions concerning the unavailability must use the same identification	35 Characters	Yes	<MP EIC Code>-NGET-PUPU-<Sequence Number> e.g. <MP EIC Code>-NGET-PUPU-00000001	PUPU = Planned Unavailability of Production Unit The elements "mRID" and "revisionNumber" provide the complete identification of a document. Every time a document is modified the "mRID" does not change but the "revision Number" is incremented. A duplicate document within the system is any document received that has the same "mRID" and "revisionNumber" for a given sender.
2	Unavailability Market Document	revisionNumber	Identification of the version that distinguishes one evolution of a document from another. The document version is used to identify a given version of a time series set for a given Period Time Interval. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version.	3 Numeric Characters	Yes	<NNN> e.g. 1	A numeric revision number should be supplied to reflect the revision/version of the document. The elements "mRID" and "revisionNumber" provide the complete identification of a document. Every time a document is modified the "mRID" does not change but the "revision Number" is incremented. A duplicate document within the system is any document received that has the same "mRID" and "revisionNumber" for a given sender.
3	Unavailability Market Document	Type	The coded type of a document. The document type describes the principal characteristic of the document.	3 Alphanumeric Characters	Yes	A77	A77=Production Unavailability

4	Unavailability Market Document	PROCESS.PROCESSTYPE	The process type identifies the type of processing to be carried out on the information.	3 Alphanumeric Characters	Yes	A26	A26 = Unavailability information
5	Unavailability Market Document	CREATEDDATETIME	The date and time of the creation of the document. The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	YYYY-MM-DDTHH:MM:SSZ	Yes	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp
6	Unavailability Market Document	SENDER_MARKETPARTICIPANT MRID	The Sender of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. Permitted codes are: “A01” for EIC coding scheme.	3 Alphanumeric characters for Coding scheme 16 Alphanumeric characters for Sender	Yes	<Market Participant EIC Code>	
7	Unavailability Market Document	SENDER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the sender within the document.	3 Alphanumeric characters	Yes	A39	A39 = Data Provider
8	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MRID	The Receiver of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Receiver 3 Alphanumeric characters for Coding scheme	Yes	10X1001A1001A515	This will be National Grid EIC Code.
9	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the receiver within the document.	3 Alphanumeric characters	Yes	A04	A04 = System Operator or TSO(Transmission System Operator)
10	Unavailability Market Document	UNAVAILABILITY_TIME_PERIOD.TIMEINTERVAL	The start and end date and time for a given interval.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-19T14:32Z End Date =e.g. 2014-03-19T15:02Z	This information provides the start and end date and time of the time interval covering the whole unavailability document.

11	Unavailability Market Document	DOCSTATUS	Identification of the condition or position of the document with regard to its standing. It is used to identify an unavailability document that has been withdrawn or cancelled. This information is only provided to indicate a cancellation of an unavailability situation. The cancelled status only applies to planned outages. The withdrawn status is only used to indicate that the outage should be removed.	3 Alphanumeric Characters	Dependent	NULL or A09 or A13	NULL = Active A09= Cancelled A13= Withdrawn Note 1: In the case of this document the term "cancelled" refers to the cancellation of a planned unavailability. The term "withdrawn" refers to an unavailability that is erroneous and has to be removed from the transparency platform. Note 2: the Doc status should only be provided in the case of the withdrawal or cancellation of an unavailability document. Note 3: For active status the current assumption is that no value will be provided.
12	Time Series Class	mRID	A unique identification within the document assigned by the sender. This must be unique for the whole document and guarantee the non-duplication of all the attributes of the time series class.	35 Alphanumeric Characters	Yes	MP-NGET-PUPU-TS-< Sequence Number> e.g. MP-NGET-TS-PUPU-00000001	PUPU=Planned Unavailability of Production Unit
13	Time Series Class	BusinessType	The identification of the nature of the time series.	3 Alphanumeric characters	Yes	A53 or A54	A53 = Planned maintenance A54 = Forced unavailability
14	Time Series Class	BIDDINGZONE_DOMAIN.MRID	The identification of the bidding zone for which the unavailability information is being provided. A bidding zone cannot vary within an Outage Document	3 Alphanumeric characters	Dependent	10YGB----------A	GB Bidding Zone EIC Code

15	Time Series Class	IN_DOMAIN.MRID	The identification of the domain where the energy is going for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
16	Time Series Class	OUT_DOMAIN.MRID	The identification of the domain where the energy is coming from for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
17	Time Series Class	START_DATEANDORTIME.DATE	This identifies the date of the start of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
18	Time Series Class	START_DATEANDORTIME.TIME	This identifies the time of the start of the unavailability being described in the time series.	HH:MM:SSZ	Yes	e.g. 14:00:00Z	
19	Time Series Class	END_DATEANDORTIME.DATE	This identifies the date of the end of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
20	Time Series Class	END_DATEANDORTIME.TIME	This identifies the time of the end of the unavailability being described in the time series	HH:MM:SSZ	Yes	e.g. 14:30:00Z	
21	Time Series Class	QUANTITY_MEASURE_UNIT.NAME	The identification of the formal code for a measurement unit	3 Alphanumeric Characters	Yes	MAW	MAW = Megawatts

22	Time Series Class	CURVETYPE	The identification of the coded representation of the type of curve being described.	3 Alphanumeric Characters	Yes	A01 or A03	A01 = Sequential fixed size block or A03 = Variable sized Block Please note that submissions via the FTP or the Web Services will allow either of the two values (A01 or A03), but the MODIS GUI screens for manual report data entry currently restricts the value to A01.
23	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.MRID	The identification of a production unit that is affected by the unavailability	16 Alphanumeric characters for Resource Code 3 Alphanumeric characters for Coding scheme	Dependent	<Production Unit EIC Code>	Unit Id as registered with Market Participant
24	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.NAME	The name of the registered resource being provided.	35 Alphanumeric Characters	Dependent	<Production Unit BMU ID >	It is used only for download transmissions but not for upload transmissions. This field should be used for BMU ID so that traceability could be maintained against the registered Unit in NG.
25	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.PSRTYPE	This represents the coded type of production unit resource being described	3 Alphanumeric characters	Dependent	A04 or A05	It is used only for download transmissions but not for upload transmissions. I
26	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.LOCATION.NAME	This represents the location for the production registered resource.	35 Alphanumeric Characters.	Dependent	GB	It is used only for download transmissions but not for upload transmissions.

27	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.MRID	The identification of the generation unit for which the generation information is being provided. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Generation Unit Code 3 Alphanumeric characters for Coding scheme	Dependent	NULL	Not used for this report.
28	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.NAME	This represents the name of the generation unit.	35 Alphanumeric Characters	Dependent	NULL	Not used for this report.
29	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRESOURCES.NOMINALP	This represents the installed generation capacity for the generation unit being described. This value shall always be provided in MW. A decimal point value may be used to express values that are inferior to the defined unit of measurement. All quantities are non-signed values. **Note**: Similar format to Item 20 above.	17 Numeric Characters including Decimal	Dependent	200.34	It is used only for download transmissions but not for upload transmissions.
30	Asset_Registered Resource Class	mRID	The identification of a transmission infrastructure asset is being provided.	The maximum length of the asset registered resource code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
31	Asset_Registered Resource Class	Name	The name of the transmission infrastructure asset for which the information is being provided.	35 Alphanumeric characters	Yes	NULL	Not used for this report.

32	Asset_Registered Resource Class	ASSET_PSRTYPE.PSRTYPE	This represents the coded identification of the type of asset being described. A04 = Production or Generation A05 = Consumption	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
33	Asset_Registered Resource Class	LOCATION.NAME	The name of the location of the asset for which the unavailability information is being provided.	35 Alphanumeric characters	Dependent	NULL	Not used for this report.
34	Series_Period Class	TIMEINTERVAL	The start and end date and time for a given interval.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-16T12:30Z End Date =e.g. 2014-03-16T13:00Z	
35	Series_Period Class	RESOLUTION	Definition of the number of units of time that compose an individual step within a period.	The Resolution is expressed in compliance with ISO 8601	Yes	PT60M or PT30M or PT15M or PT1M	PT60M if the resolution is hourly PT30M if the resolution is half hourly PT15M if the resolution is quarter hourly PT1M if the resolution is for a minute.
36	Point Class	Position	A sequential value representing the relative position within a given time interval.	The maximum number of characters is 6.	Yes	<Numeric Value> e.g. 1	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed.
37	Point Class	Quantity	The principal quantity identified for a point. This information defines the quantity of the load or generation that is taken from or put into the area for the position within the interval period.	The maximum length of this information is 17 numeric characters (decimal mark included).	Yes	<Numeric Value> e.g. 100.05	This value is identical to unavailability consumption capacity in this context.

38	Reason Class	Code	The reason code identifying that complementary information about unavailability or planned maintenance.	3 alphanumeric characters.	Yes	A95 or B18 or B19 or B20	A95: complementary information (this requires the use of the ReasonText attribute.) B18 = Failure B19 = Foreseen Maintenance B20 = Shutdown
39	Reason Class	Text	This provides additional textual information concerning the unavailability which may be provided as necessary	512 alphanumeric characters.	Yes	<Reason Text>	

7.3.4 BRD ID: B1540 (A15.1d) - Changes In Actual Availability of Production Units

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments
1	Unavailability Market Document	mRID	Unique identification of the document being exchanged within a business process flow. This identifies a given unavailability document. An Unavailability Market Document describes a specific unavailability and must have a unique identification assigned by the sender of the document for all transmissions to the receiver. All additions, modifications, or suppressions concerning the unavailability must use the same identification	35 Characters	Yes	<MP EIC Code>-NGET-AAPU-<Sequence Number> e.g. <MP EIC Code>-NGET-AAPU-00000001	AAPU = Actual Availability of Production Unit The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revision Number” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.

2	Unavailability Market Document	revisionNumber	Identification of the version that distinguishes one evolution of a document from another. The document version is used to identify a given version of a time series set for a given Period Time Interval. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version.	3 Numeric Characters	Yes	<NNN> e.g. 1	A numeric revision number should be supplied to reflect the revision/version of the document. The elements “mRID” and “revisionNumber” provide the complete identification of a document. Every time a document is modified the “mRID” does not change but the “revision Number” is incremented. A duplicate document within the system is any document received that has the same “mRID” and “revisionNumber” for a given sender.
3	Unavailability Market Document	Type	The coded type of a document. The document type describes the principal characteristic of the document.	3 Alphanumeric Characters	Yes	A77	A77=Production Unavailability
4	Unavailability Market Document	PROCESS.PROCESSTYPE	The process type identifies the type of processing to be carried out on the information.	3 Alphanumeric Characters	Yes	A26	A26 = Unavailability information
5	Unavailability Market Document	CREATEDDATETIME	The date and time of the creation of the document. The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	YYYY-MM-DDTHH:MM:SSZ	Yes	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp
6	Unavailability Market Document	SENDER_MARKETPARTICIPANT MRID	The Sender of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. Permitted codes are: “A01” for EIC coding scheme.	3 Alphanumeric characters for Coding scheme 16 Alphanumeric characters for Sender	Yes	<Market Participant EIC Code>	
7	Unavailability Market Document	SENDER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the sender within the document	3 Alphanumeric characters	Yes	A39	A39 = Data Provider

8	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MRID	The Receiver of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Receiver 3 Alphanumeric characters for Coding scheme	Yes	10X1001A1001A515	This will be National Grid EIC Code.
9	Unavailability Market Document	RECEIVER_MARKETPARTICIPANT.MARKETROLE.TYPE	This is the code which identifies the role of the receiver within the document.	3 Alphanumeric characters	Yes	A04	A04 = System Operator or TSO(Transmission System Operator)
10	Unavailability Market Document	UNAVAILABILITY_TIME_PERIOD.TIMEINTERVAL	The start and end date and time for a given interval. --- The time interval that is associated with an electronic document and which is valid for the whole document.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-19T14:32Z End Date =e.g. 2014-03-19T15:02Z	This information provides the start and end date and time of the time interval covering the whole unavailability document.
11	Unavailability Market Document	DOCSTATUS	Identification of the condition or position of the document with regard to its standing. It is used to identify an unavailability document that has been withdrawn or cancelled. This information is only provided to indicate a cancellation of an unavailability situation. The cancelled status only applies to planned outages. The withdrawn status is only used to indicate that the outage should be removed.	3 Alphanumeric Characters	Dependent	NULL or A09 or A13	NULL =Active A09= Cancelled A13= Withdrawn Note 1: In the case of this document the term “cancelled” refers to the cancellation of a planned unavailability. The term “withdrawn” refers to an unavailability that is erroneous and has to be removed from the transparency platform. Note 2: the Doc status should only be provided in the case of the withdrawal or cancellation of an unavailability document. Note 3: For active status the current assumption is that no value will be provided.

12	Time Series Class	mRID	A unique identification within the document assigned by the sender. This must be unique for the whole document and guarantee the non-duplication of all the attributes of the time series class.	35 Alphanumeric Characters	Yes	MP-NGET-AAPU-TS-< Sequence Number> e.g. MP-NGET-AAPU-TS-00000001	AAPU=Actual Availability of Production Unit
13	Time Series Class	BusinessType	The identification of the nature of the time series.	3 Alphanumeric characters	Yes	A53 or A54	A53 = Planned maintenance A54 = Forced unavailability
14	Time Series Class	BIDDINGZONE_DOMAIN.MRID	The identification of the bidding zone for which the unavailability information is being provided. A bidding zone cannot vary within an Outage Document	3 Alphanumeric characters	Dependent	10YGB----------A	GB Bidding Zone EIC Code
15	Time Series Class	IN_DOMAIN.MRID	The identification of the domain where the energy is going for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
16	Time Series Class	OUT_DOMAIN.MRID	The identification of the domain where the energy is coming from for which the unavailability information is being provided.	The maximum length of the area code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.

17	Time Series Class	START_DATEANDORTIME.DATE	This identifies the date of the start of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
18	Time Series Class	START_DATEANDORTIME.TIME	This identifies the time of the start of the unavailability being described in the time series.	HH:MM:SSZ	Yes	e.g. 14:00:00Z	
19	Time Series Class	END_DATEANDORTIME.DATE	This identifies the date of the end of the unavailability being described in the time series.	YYYY-MM-DD	Yes	e.g. 2014-03-18	
20	Time Series Class	END_DATEANDORTIME.TIME	This identifies the time of the end of the unavailability being described in the time series	HH:MM:SSZ	Yes	e.g. 14:30:00Z	
21	Time Series Class	QUANTITY_MEASURE_UNIT.NAME	The identification of the formal code for a measurement unit	3 Alphanumeric Characters	Yes	MAW	MAW = Megawatts
22	Time Series Class	CURVETYPE	The identification of the coded representation of the type of curve being described.	3 Alphanumeric Characters	Yes	A01 or A03	A01 = Sequential fixed size block or A03 = Variable sized Block Please note that submissions via the FTP or the Web Services will allow either of the two values (A01 or A03), but the MODIS GUI screens for manual report data entry currently restricts the value to A01.
23	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.MRID	The identification of a production unit that is affected by the unavailability	16 Alphanumeric characters for Resource Code 3 Alphanumeric characters for Coding scheme	Dependent	<Production Unit EIC Code>	Unit Id as registered with Market Participant

24	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.NAME	The name of the registered resource being provided.	35 Alphanumeric Characters	Dependent	<Production Unit BMU ID >	It is used only for download transmissions but not for upload transmissions. This field should be used for BMU ID so that traceability could be maintained against the registered Unit in NG.
25	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.PSRTYPE	This represents the coded type of production unit resource being described	3 Alphanumeric characters	Dependent	A04 or A05	It is used only for download transmissions but not for upload transmissions.
26	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.LOCATION.NAME	This represents the location for the production registered resource.	35 Alphanumeric Characters.	Dependent	GB	It is used only for download transmissions but not for upload transmissions.
27	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.MRID	The identification of the generation unit for which the generation information is being provided. The codification scheme used shall be: “A01” for EIC coding scheme.	16 Alphanumeric characters for Generation Unit Code 3 Alphanumeric characters for Coding scheme	Dependent	NULL	Not used for this report.
28	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRECOURCES.NAME	This represents the name of the generation unit.	35 Alphanumeric Characters	Dependent	NULL	Not used for this report.
29	Time Series Class	PRODUCTION_REGISTEREDRESOURCE.PSRTYPE.POWERSYSTEMRESOURCES.NOMINALP	This represents the installed generation capacity for the generation unit being described. This value shall always be provided in MW. A decimal point value may be used to express values that are inferior to the defined unit of measurement. All quantities are non-signed values. **Note**: Similar format to Item 20 above.	17 Numeric Characters including Decimal	Dependent	200.34	It is used only for download transmissions but not for upload transmissions.

30	Asset_Registered Resource Class	mRID	The identification of a transmission infrastructure asset is being provided.	The maximum length of the asset registered resource code is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.	Dependent	NULL	Not used for this report.
31	Asset_Registered Resource Class	Name	The name of the transmission infrastructure asset for which the information is being provided.	35 Alphanumeric characters	Yes	NULL	Not used for this report.
32	Asset_Registered Resource Class	ASSET_PSRTYPE.PSRTYPE	This represents the coded identification of the type of asset being described. A04 = Production or Generation A05 = Consumption	3 Alphanumeric characters	Dependent	NULL	Not used for this report.
33	Asset_Registered Resource Class	LOCATION.NAME	The name of the location of the asset for which the unavailability information is being provided.	35 Alphanumeric characters	Dependent	NULL	Not used for this report.
34	Series_Period Class	TIMEINTERVAL	The start and end date and time for a given interval.	Both the start and the end date and time must be expressed in UTC as YYYY-MM-DDTHH:MMZ	Yes	Start Date =e.g. 2014-03-16T12:30Z End Date =e.g. 2014-03-16T13:00Z	

35	Series_Period Class	RESOLUTION	Definition of the number of units of time that compose an individual step within a period.	The Resolution is expressed in compliance with ISO 8601	Yes	PT60M or PT30M or PT15M or PT1M	PT60M if the resolution is hourly PT30M if the resolution is half hourly PT15M if the resolution is quarter hourly PT1M if the resolution is for a minute.
36	Point Class	Position	A sequential value representing the relative position within a given time interval.	The maximum number of characters is 6.	Yes	<Numeric Value> e.g. 1	The relative position must be expressed as a numeric integer value beginning with 1. All leading zeros must be suppressed.
37	Point Class	Quantity	The principal quantity identified for a point.. This information defines the quantity of the load or generation that is taken from or put into the area for the position within the interval period.	The maximum length of this information is 17 numeric characters (decimal mark included).	Yes	<Numeric Value> e.g. 100.05	This value is identical to unavailability consumption capacity in this context.
38	Reason Class	Code	The reason code identifying that complementary information about unavailability or planned maintenance.	3 alphanumeric characters.	Yes	A95 or B18 or B19 or B20	A95: complementary information (this requires the use of the ReasonText attribute.) B18 = Failure B19 = Foreseen Maintenance B20 = Shutdown
39	Reason Class	Text	This provides additional textual information concerning the unavailability which may be provided as necessary	512 alphanumeric characters.	Yes	<Reason Text>	

7.4 REMIT Requirements

7.4.1 BRD ID: B2010 – Information on Outages of Generation and Consumption Units

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments

1	Message Class	Version	Version of the XSD	As per valid values	Yes	1.0	
2	Message Class	mRID	Unique identification of the message	Up to 35 alphanumeric characters	Yes	<mRID>	For messages submitted by National Grid, format of <MP EIC Code>-NGET-RMT-<Sequence number> is required
3	Message Class	revisionNumber	Unique identification of the message revision	Positive integer up to 3 digits	Yes		Can be used in order to follow up on previous message with the same mRID
4	Message Class	DocumentType	Unique identification of the document being exchanged within a business process flow	As per valid values	Yes	REMIT_document	
5	Message Class	Sender_MarketPariticpant_ID	Unique identifier for the Market Participant sending the document	16 alphanumeric characters	Yes	<Sender Market Participant Identifier>	This will use the EIC form of participant ID

6	Message Class	Sender_MarketParticipant_Role	Code identifying the role of the sender of the document	3 Alphanumeric characters	Yes	A01 to A39	A01=Trade responsible party A02=Consumption responsible Party A03=Combined power exchange A04=System operator A05=Imbalance settlement responsible A06=Production responsible party A07=Transmission capacity allocator A08=Balance responsible party A09=Metered data aggregator A10=Billing agent A11=Market operator A12=Balance supplier A13=Consumer A14=Control area operator A15=Control block operator A16=Coordination centre operator A17=Grid access provider A18=Grid operator A19=Meter administrator

7	Message Class						A20=Party connected to grid A21=Producer A22=Profile maintenance party A23=Meter operator A24=Metered data collector A25=Metered data responsible A26=Metering point administrator A27=Resource provider A28=Scheduling coordinator A29=Capacity Trader A30=Interconnection Trade Responsible A31=Nomination validator A32=Market information aggregator A33=Information receiver A34 =Reserve Allocator A35=MOL Responsible A36=Capacity Coordinator A37=Reconciliation Accountable A38=Reconciliation Responsible A39=Data provider
8	Message Class	Receiver_MarketParticipantID	Unique identifier for the Market Participant receiving the document, in EIC form	16 alphanumeric characters	Yes	<Receiver Market Participant Identifier>	This will be the ELEXON EIC Code
9	Message Class	Receiver_MarketParticipantRole	Code identifying the role of the receiver of the document.	3 Alphanumeric characters	Yes	A01 to A39	This will be the ELEXON EIC role code

10	InsideInformation Class	MessageHeading	Description of message.	Up to150 alphanumeric characters	Yes	<Message Heading>	Free text with high level description of message
11	InsideInformation Class	EventType	Categorization of the events.	As per valid values	Yes	FAILURE PLANNEDOUTAGE SPECIALINFORMATION	
12	InsideInformation Class	Participant_MarketParticipantID	Unique identification of the Market Participant associated with the event being reported upon	Up to 8 Alphanumeric characters	Yes	<Market Participant Identifier>	Either a registered BSC participant ID or a non-BSC participant ID registered with ELEXON
13	InsideInformation Class	AssetID	Unique identification of an asset	Up to 18 Alphanumeric characters	Yes	<Asset Identifier>	Can have value "NO_ASSET" where message does not relate to any particular asset.
14	InsideInformation Class	AssetType	Type of asset being reported upon	As per valid values	No	Production Consumption Transmission Distribution	
15	InsideInformation Class	AffectedUnit	Unit affected by the event	Up to 18 Alphanumeric characters	No	<Affected Unit>	Free text identification of the unit affected
16	InsideInformation Class	AffectedUnitEIC	Energy Identification Code of the unit affected by the event	Up to 18 Alphanumeric characters	No	<Affected Unit EIC>	EIC code of the unit affected
17	InsideInformation Class	AffectedArea	BMRS Zone affected by the event	3 Alphanumeric characters	No	N, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11. B12, B13, B14, B15, B16, B17	N denotes National; other identifiers represent the individual BMRS Zones.

18	InsideInformation Class	FuelType	BMRS Fuel Type of the asset affected by the event	n/a	No	COAL CCGT NUCLEAR INTFR OIL WIND PS NPSHYD INTIRL OCGT OTHER INTNED INTEW	
19	InsideInformation Class	NormalCapacity	Normal capacity information	Decimal(13,3)	No	<Normal Capacity>	
20	InsideInformation Class	AvailableCapacity	Available capacity information	Decimal(13,3)	No	<Available Capacity>	
21	InsideInformation Class	EventStatus	Status of the event	As per valid values	Yes	OPEN CLOSED CANCELLED	
22	InsideInformation Class	EventStart	Event Start Date and Time	YYYY-MM-DDTHH:MM:SSZ	No	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp in Zulu format
23	InsideInformation Class	EventEnd	Event End Date and Time	YYYY-MM-DDTHH:MM:SSZ	No	YYYY-MM-DDTHH:MM:SSZ e.g. 2014-03-16T14:32:45Z	Current Date and Time Stamp in Zulu format
24	InsideInformation Class	DurationUncertainty	Duration uncertainty	Up to 50 Alphanumeric characters	No	<Duration uncertainty>	Description of estimated uncertainty of event duration, e.g. ± 1 day
25	InsideInformation Class	Cause	Event cause	Up to 50 Alphanumeric characters	No	<Cause>	

26	InsideInformation Class	RelatedInformation	Other related information	Up to 400 Alphanumeric characters	No	<Related Information>	

7.5 Acknowledgement

7.5.1 Acknowledgement of XML Report

Ref	Class	Title	Definition	Format	Mandatory	Value	Comments
1	Acknowledge Document Class	DOCUMENT IDENTIFICATION	Unique identification of the acknowledgement of a document that has been received. An acknowledgement document is sent in reply to the receipt of a document. This identification is assigned by the party who is acknowledging the application reception of a document. An acknowledgement is sent for the receipt of every document in the information flow as requiring an acknowledgement.	35 Alphanumeric Characters	Yes	ELX-NGC-ACK-<Sequence number>	This could be any unique value.

2	Acknowledge Document Class	DOCUMENT DATE AND TIME	Date and time of transmission of the acknowledgement. The date and time that the document was prepared for transmission by the sender.	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	Yes	e.g. 2014-05-10T11:05:45Z.	
3	Acknowledge Document Class	SENDER IDENTIFICATION	Identification of the party that is the originator of the acknowledgement. The originator of the acknowledgement is identified by a unique coded identification. This value should be the same as that found in the receiver identification of the document being acknowledged. The codification scheme used for the coded identification is indicated by the coding scheme attribute. It is a 3 character alphanumeric code.	16 alphanumeric characters. Scheme code is 3 alphanumeric characters.	Yes	10X1001A1001A515	This will be National Grid EIC Code. Coding Scheme should be "A01"
4	Acknowledge Document Class	SENDER ROLE	Identification of the role played by the originator of the document. The sender role, which identifies the role of the originator within the document.	3 alphanumeric characters.	Yes	A04	A04 = System Operator or TSO(Transmission System Operator)
5	Acknowledge Document Class	RECEIVER IDENTIFICATION	Identification of the party who is the recipient of the acknowledgement. The recipient of the document is identified by a unique coded identification. This should be the same value as the sender of the schedule document.	16 alphanumeric characters. Scheme code is 3 alphanumeric characters.	Yes	<MP EIC Code>	This should be 16 characters Market Participant EIC Code.
6	Acknowledge Document Class	RECEIVER ROLE	Identification of the role played by the receiver. The receiver role, which identifies the role of the receiver within the document.	3 alphanumeric characters.	Yes	A39	A39 = Data Provider If a document cannot be successfully parsed on entry then the role of the sender may be unknown (e.g. document incorrect vis a vis the schema, or document file cannot be processed.)

7	Acknowledge Document Class	RECEIVING DOCUMENT IDENTIFICATION	Unique identification of the document that has been received. This information identifies the document that has been received by the receiving party. The identification is extracted from the received document.	35 alphanumeric characters.	Dependent	<MP EIC Code>-NGET-<file type>-<Sequence Number> e.g. <MP EIC Code>-NGET-AAPU- 00000001	If the document cannot be successfully processed this information may not be available
8	Acknowledge Document Class	RECEIVING DOCUMENTVERSION	Version of the document received. The version of the document that has been received.	3 alphanumeric characters	Dependent	<Revision Number> Example : 1	The document version must be provided for all documents being acknowledged that have a document version attribute.
9	Acknowledge Document Class	RECEIVING DOCUMENT TYPE	Type of the document received. The document type is used to identify the type of document being acknowledged.	3 alphanumeric characters	Dependent	Example : A77	A77=Production Unavailability. The document type is mandatory in contexts where there is potential ambiguity about the document being acknowledged.
10	Acknowledge Document Class	RECEIVINGPAYLOADNAME	The name of the file or the payload identification that contains the document that cannot be processed. A document can be received via an FTP server, or a Mime payload. Whenever it cannot be processed, this field is used by the technical acknowledgement to identify the container of the document for facilitate the sender in identifying it.	150 alphanumeric characters	Dependent		This information is only provided in the case where an electronic document cannot be processed due to a content error by the receiving system.
11	Acknowledge Document Class	DATE TIME RECEIVING DOCUMENT	Date and time of reception of the electronic document The date and time that the document was received by the receiving system.	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	Dependent	e.g. 2014-05-10T11:05:45Z.	This information is provided only if it has been agreed between the two parties.

12	Reason Class	ReasonCode	A code providing the acknowledgement status.	3 alphanumeric characters	This information is mandatory after the Acknowledgement level and TimeIntervalError level. It is dependent at TimeSeriesRejection level.	**At the document level :** A01: Message fully accepted A02: Message fully rejected A03: Message contains errors at the time series level A04: Schedule time interval incorrect A51: Message identification or version conflict A52: Time series missing from new version of message A53: Receiving party incorrect A59: Not compliant with local market rules A94. Document cannot be processed by receiving system **At the time series level** A20: Time series fully rejected A21: Time series accepted with specific time interval errors A41: Resolution inconsistency A50: Senders time series version conflict A55: Time series identification conflict A56: Corresponding time series not netted A57: Deadline limit exceeded A59: Not compliant with local market rules	The reason code provides the status of the acknowledgement. If the receiving document is fully accepted then there is simply a reason code (A01) at the header part of the acknowledgement. For errors as many reason elements as necessary may be used.

13	Reason Class	Reason Text	Textual description of a rejection.	512 alphanumeric characters	Dependent		Used only if the reason code is insufficient to identify an error.
14	TIME SERIES REJECTION CLASS	SENDERS TIME SERIES IDENTIFICATION	Sender's identification of the time series instance that was received. The identification code provided in the schedule document to identify a time series.	35 alphanumeric characters	Dependent		Used only to identify specific time series that is subject to rejection. If the schedule document is completely accepted this information is not transmitted.
15	TIME SERIES REJECTION CLASS	SENDERS TIME SERIES VERSION	The time series version assigned by the schedule document sender to a specific sender's time series identification.	3 alphanumeric characters	Dependent		Used only to identify specific time series that is subject to rejection. If the schedule document is completely accepted this information is not transmit.
16	TIME INTERVAL ERROR CLASS	QUANTITY TIME INTERVAL	The start and end date and time of the time period in error.	YYYY-MM-DDTHH:MMZ/ YYYY-MM-DDTHH:MMZ.	Dependent		Used only if a specific time interval is to be identified.

8 Summary

The below attached XSD would be used as contract schema for the articles mentioned in the table.

BRD ID	Article No	Description	Contract Schema(XSD)	Frequency	Document Type	Business Type	Time Format	mRID Format	File Format
B0710	A7.1a	Planned unavailability of consumption units	iec62325-451-6-outage.xsd	Ad-hoc	A76 = Load unavailability	A53 = Planned maintenance A54 = Forced unavailability	UTC : YYYY-MM-DDTHH:MM:SSZ	<MP EIC Code> -NGET-PUCU-<Sequence Number>	<MP EIC Code> -NGET-PUCU-<Sequence Number>-<Revision Number>
B0720	A7.1b	Changes In Actual Availability of Consumption Units	iec62325-451-6-outage.xsd	Ad-hoc	A76 = Load unavailability	A53 = Planned maintenance A54 = Forced unavailability	UTC : YYYY-MM-DDTHH:MM:SSZ	<MP EIC Code>-NGET-AACU-<Sequence Number>	<MP EIC Code>-NGET-AACU-<Sequence Number>-<Revision Number>
B1030	A10.1c	Changes In Actual Availability of Off-Shore Grid Infrastructure	iec62325-451-6-outage.xsd	Ad-hoc	A79 = Offshore grid infrastructure unavailability	A53 = Planned maintenance A54 = Forced unavailability	UTC : YYYY-MM-DDTHH:MM:SSZ	<MP EIC Code>-NGET-AAOG-<Sequence Number>	<MP EIC Code>-NGET-AAOG-<Sequence Number>-<Revision Number>
B1510	A15.1a	Planned Unavailability of Generation Units	iec62325-451-6-outage.xsd	Ad-hoc	A80 = Generation unavailability	A53 = Planned maintenance A54 = Forced unavailability	UTC : YYYY-MM-DDTHH:MM:SSZ	<MP EIC Code>-NGET-PUGU-<Sequence Number>	<MP EIC Code>-NGET-PUGU-<Sequence Number>-<Revision Number>
B1520	A15.1b	Changes In Actual Availability of Generation Units	iec62325-451-6-outage.xsd	Ad-hoc	A80 = Generation unavailability	A53 = Planned maintenance A54 = Forced unavailability	UTC : YYYY-MM-DDTHH:MM:SSZ	<MP EIC Code>-NGET-AAGU-<Sequence Number>	<MP EIC Code>-NGET-AAGU-<Sequence Number>-<Revision Number>
B1530	A15.1c	Planned unavailability of production units	iec62325-451-6-outage.xsd	Ad-hoc	A77 = Production unavailability	A53 = Planned maintenance A54 = Forced unavailability	UTC : YYYY-MM-DDTHH:MM:SSZ	<MP EIC Code>-NGET-PUPU-<Sequence Number>	<MP EIC Code>-NGET-PUPU-<Sequence Number>-<Revision Number>
B1540	A15.1d	Changes In Actual	iec62325-451-6-	Ad-hoc	A77 = Production	A53 = Planned	UTC :	<MP EIC Code>-	<MP EIC Code>-NGET-AAPU-

		Availability of Production Units	outage.xsd		unavailability	maintenance A54 = Forced unavailability	YYYY-MM-DDTHH:MM:SSZ	NGET-AAPU-<Sequence Number>	<Sequence Number>-<Revision Number>
B2010	NA	Information on Outages of Generation and Consumption Units	remit (07-aug-2014) for CR333.xsd	Ad-hoc	REMIT_document	NA	UTC : YYYY-MM-DDTHH:MM:SSZ	<MP EIC Code>-NGET-RMT-<Sequence number>	<MP EIC Code>-NGET-RMT-<Sequence number>-<Revision number>
NA	NA	Acknowledgement	ACK-XSD.xsd	Ad-hoc	Any receiving document type is required.	NA	UTC : YYYY-MM-DDTHH:MM:SSZ	Unique identification	Must start with "ACK_"

9 Contract Schema

The below attached XSD would be used as contract schema for the articles mentioned in the above summary table in section[8].


Sample XSD Files.zip

10 Sample XML Reports

Below are the attached sample XML files created for the articles mentioned in Section [3]. The XML files are based on XSD file(iec62325-451-6-outage.xsd).


Sample XML Files.zip

11 Sample WSDL File

Below is the attached sample WSDL files which is based on XSD file(iec62325-451-6-outage.xsd).

FoF :


NGRIDParticipantsOutageResponse.wsdl


ParticipantsNGRIDOutageRequest.wsdl

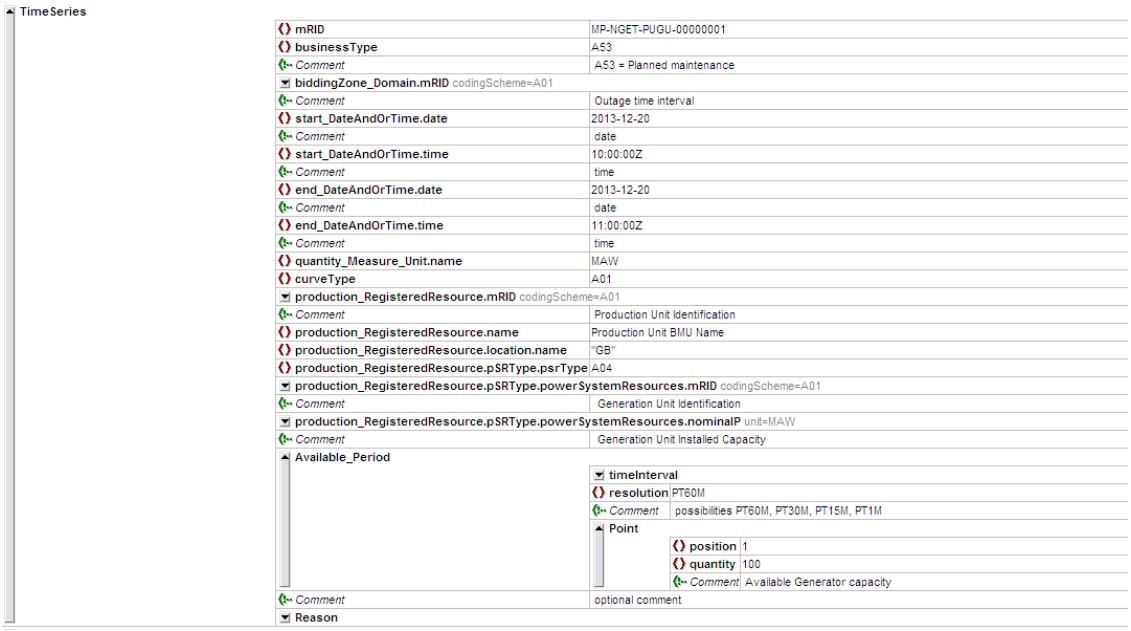
Production:


NGRIDParticipantsOutageResponse.wsdl


ParticipantsNGRIDOutageRequest.wsdl

12 XML Hierarchy Diagram

Below is the XML hierarchy diagram for article 15.1a to reflect the time interval, position and quantity associated with time series.



13 System Document Information

Author: **Sandeep Pandit, IBM**

Distribution:
See review form for recommendations.

Name	Position	Reason for Distribution
Jo Faulkner	Client Lead	Approval
Kam Siu	IS Project Manager	Approval
Harry Shah	Solution Architect	Approval
Daniel Arrowsmith Melanie Jackson	Business Analyst	Review
	DR&S Consultant	Review
	Architecture Governance Board	Review (Conformance)
	IS Enterprise Ops Prod/Apps Support	Review
	Service Delivery	Review
	SMI	Review
	Centre of Excellence (sa CoE, I SOA CoE (Integration Aspects only) & BI CoE)	Review
Matthew Ogbebor	IBM Solution Architect	Review

Document Amendment History:

Version	Date	Changed by	Remarks
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0.2	31 March 2014	Sandeep Pandit	Included the review comments from IBM solution Architect (Atul Misra).
0.3	16 April 2014	Sandeep Pandit	Included the review comments from IBM and NG Architects.
0.4	16 April 2014	Sandeep Pandit	Included the review comments from IBM TARMAP Lead Solution Architect (Paul Richardson).
0.5	09 May 2014	Sandeep Pandit	Included review comments from NG Solution Architect , Business Analyst and Project

			Manager.
0.6	19 May 2014	Sandeep Pandit	Included review comments from NG Solution Architect , Business Analyst and Project Manager.
1.0	22 May 2014	Melanie Jackson	Issued for Approval
1.1	24 June 2014	Sandeep Pandit	Updates: Included review comments from Market Participants and Elexon.
1.2	18 July 2014	Melanie Jackson	Updated with additional clarifications from Market Participants' review – Updates made to section 3
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2.1	22 Aug 2014	Melanie Jackson	Summary section updated with latest REMIT XSD. Section 8 and 9 updated with latest XSD and validated sample XML files.
2.2	28 Aug 2014	Melanie Jackson	Added the ACK.XSD in the Section 8 with other sample XSD files.
3.0	16 Sept 2014	Melanie Jackson	Issued for Approval
2.3	10 Feb 2015	Sandeep Pandit	Updated the document to fix the UAT defect (ETR.MODIS.146). REMIT file format updated to NGET-RMT. Section breaks and footers corrected. MODIS Reason Codes added
3.1	23 Feb 2015	Melanie Jackson	Issued for Approval
3.2	09 Mar 2015	Pete Talbot	WSDL URL links added
		Melanie Jackson	Issued for Approval
3.3	12 Mar 2015	Sandeep Pandit	Updated section 4.1.2 and 4.1.3 as recommended by Harry Shah.
3.4	07 May 2015	Sandeep Pandit	Updated the section 8 summary with Acknowledgement file details.
4.0	26 May 2015	Sandeep Pandit	Updated the footer along with Section 4 and Section 7 as per review log provided by NG.

Document References

Sr No	Reference	Title
1	REF1	European Transparency Regulation BRD v2.0
2	REF2	ETR Requirements Feasibility and Analysis Report v2.2
3	REF3	EMFIP-2-outage-market-document-V3R0-2014-01-24
4	REF4	Acknowledgement-v6r0-2014-01-16[1]
5	REF 5	Manual of Procedures for the ENTSO-E Central Information Transparency Platform Version 2.1 May 2014
6	REF 6	MoP Ref13 - entso-e-code-list-v27r0 Available via Referenced Documents for MoP (V2.0)

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