
CENTRAL INFORMATION TRANSPARENCY PLATFORM - INTEROPERABILITY TEST SPECIFICATION

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Revision History

Version	Release	Date	Paragraph	Comments
0	1	20-06-2014		
0	2	16-07-2014		Updated following TPC review
1	0	18-07-2014		Cleaned for distribution

REFERENCED DOCUMENTS

- [1] Manual of Procedures for the ENTSO-E Central Information Transparency Platform
- [2] Commission Regulation (EU) No 543/2013 of 14 June 2013 on transparency and provision of information in electricity markets
- [3] Web Services Specification for the ENTSO for Electricity Transparency Platform - AF 284 Electronic data interchanges on the Internal Electricity Market
- [4] Market Data Exchange Standard (MADES) v1r0
- [5] Implementation Guide EMFIP-5-Configuration-market-document v3R0
- [6] Web Services Integration Guide
- [7] ECP Integration Guide
- [8] Administration manual for data providers
- [9] Implementation Guide for Allocation Configuration document
- [10] Business Requirements Specification BRS V1R3

1. Objectives

The purpose of this document is to provide a high level description of the test activities required to establish interoperability between a data provider and the ENTSO-E central information transparency platform.

The context for the exchange of documents between the data provider and the platform is described in the Manual of Procedures [1] which also defines the criteria for being a data provider and provides an overview of the standards and formats which apply to submissions to the platform.

1.1 Out of Scope

During external tests September – December 2014 the following items will not be tested:

- Submission of allocation configuration through XML files.
- Receipt of Problem Statement Documents generated by the central platform when monitoring indicates that a publication deadline for an expected item has been passed.

2. Overview of test stages

Interoperability testing is composed of the following stages:

- Establish communication for the delivery of documents using one of the connection methods defined in the Manual of Procedures: MADES [4], Web Services according to [6], or ftp(s). An existing ECP or ftp(s) connection may be used.
- For those data providers intending to submit Load, Generation or Unavailability data, successful submission of “master data” in line with the Implementation Guide for Configuration Document [5]
- Demonstrate successful receipt of acknowledgement documents generated by the central transparency platform (for MADES and Web Service connected data providers only)
- Successful submission of data in line with the relevant Implementation Guide(s), depending on which Articles under the Regulation [2] the data provider wishes to submit data

Each of these stages is further described in following sections of this document.

3. User accounts & contact details

A pre-requisite of starting tests is that the data provider notifies the ENTSO-E administration team with details of the organisation, names of users and their roles & contact details, so that the initial accounts can be set up on the system. Information should be sent to TPCsupport@entsoe.net at minimum one week before the first test slot.

4. Configuration

Before any exchange of test data can take place, the test environment of the central transparency platform has to be configured with details of the data provider and the data items which are to be submitted, including:

- Organisation name, EIC code and other attributes as required
- Relations of organisations and corresponding areas
- Connection method (WS/ECP/ftps) and associated required information (e.g. endpoint address or ID, WS pull/push strategy)
- The areas/borders for which data items are to be submitted

Details of the interface and parameters of this level of configuration are provided in the Administration Manual [8]. The ENTSO-E transparency platform operations team will liaise with each data provider to confirm responsibilities for configuration.

For configuration of allocation data see section 8

5. Establish communications

The first practical step is to verify that machine-to-machine communication between the data provider and central transparency platform test environment can be established, using the nominated method.

One or more of the channels must be demonstrated working.

5.1 FTPS

Note that only ftp(s) is supported – not sftp. Unsecured ftp cannot be used.

ftps user account details must be confirmed and configured.

Access to the ftps service will be by IP address during testing (see following section); the data provider will need to clear the ftps test address through all firewalls.

Success criteria:

- ftps session started and data provider user logged into ftps
- file transferred intact

5.2 Web Services

The minimum necessary messages for submission are the *PUT* and *GET* messages defined in the Web Services specification, applied as described in the WS Integration Guide.

A digital certificate has to be provided by the data provider and loaded on the test environment as described in the Web Services Integration Guide [6].

Test steps:

- Basic calling of WS (either pull or push as decided by data provider)
- Use of GET (or LIST & GET) for data provider to retrieve acknowledgement messages

Success criteria:

- WS is found and connected
- Message transfer completes successfully
- Transparency XML document is delivered to/retrieved from the platform intact and can be recognised by the platform/data provider.

5.3 MADES/ECP

The data provider endpoint must be configured on the platform as described in the ECP Integration Guide.

Success criteria:

- Data provider application can submit messages to the local endpoint
- Data provider endpoint can upload messages to the node
- Transparency platform can retrieve data provider's messages from the node and the transferred Transparency XML document is recognised intact.
- Data provider application can retrieve Acknowledgement document from the node

5.4 Test environment addressing

The following IP addresses & URIs are used for Interoperability testing:

<https://62.209.222.11>

<ftp://62.209.222.11>

WSDL URI

<https://62.209.222.11/ws/endpoints/DataService.wsdl>

Endpoint URI

<https://62.209.222.11/ws/endpoints>

ECP node

https://ecptest.entsoe.eu/ECP_MODULE/

Endpoint ID

10X1001A1001A450@ETPR2

6. Submission of master data

In order to submit certain data items in the domains of transmission, generation and outages (please see [10] for full details), the data provider must first submit static data describing the assets in respect of which the business data would be submitted.

Success criteria:

- Master (configuration) data is received at the central transparency platform.
- The XML document can be recognised as configuration data, parsed, validated according to the validation rules defined in the BRS [10], and the asset information loaded into the platform.
- Acknowledgement document should be received for users of WS or MADES channels
- Data Flow Monitoring section of Administration part of platform web presence should indicate successful upload

7. Receipt of acknowledgement document

The central transparency platform will respond to XML documents submitted through Web Services or MADES using the Acknowledgement Document. Data provider systems must recognise the acknowledgement document and the result code provided.

Success criteria:

- Data provider confirms that acknowledgement document has been received, recognised, and the return code understood.

8. Submission of Data items

The core of the interoperability test is the submission of data items as defined in the Regulation [2].

Scope:

- For each type of data item (with the exception of submissions which are only manually uploaded, for example reports in pdf files) that the data provider intends to submit to the platform, an XML document containing complete information for an instance of that data item must be submitted through the nominated data channel
- At minimum, a single instance for each time interval resolution that is to be submitted (daily, weekly, monthly etc.) must be tested
- Data submitted must be in accordance with the configuration rules (for appropriate areas, resolution etc.) as set up in stage 4.
- For data items with market/balance time unit resolution, examples must be submitted for daylight-saving change days (23/25 hour days)

Success criteria:

- All submitted documents must be recognised by the central transparency platform and successfully validated according to the validation rules defined in the BRS [10]. This may be verified in Data Flow Monitoring & Data Item monitoring section of Administration part of platform web interface. Submitted data items are published in the platform web interface and the values shown are the ones expected, taking into account aggregation or other processing rules defined per data item. (For data items where submissions by other data providers are required for publication, this verification may be performed by secretariat staff only.)

8.1 Transmission Allocation

During external test period pre go-live (September – December 2014) submission of allocation calendar information will be through the web presence GUI for administration only.

Submission by XML file will be added and tested at a later stage.

9. Problem tracking and resolution

In most cases the data provider will be immediately aware if a submission has failed. Diagnostic information is provided in DataFlow monitoring and DataItem monitoring sections of the platform web interface which are available to logged-in users (see Administration Manual [8]).

The Acknowledgement Document will also provide information on failed submissions.

Note that submissions **must** be in conformance with the Implementation Guides and their dependency tables, and compliant with the associated XSDs, and respect the rules described in the BRS [10].

Data providers are requested to consult these resources initially when analysing platform rejections or other problems with submissions. In the event that errors cannot be resolved using this information, requests for assistance with resolution should be placed through the helpdesk at TPCsupport@entsoe.net.

10. Other resources

Data providers may wish to consult the platform FAQ for additional advice.