Notice


It is based on the input received through the public consultation, following extensive informal dialogue with stakeholders, as well as bilateral meetings with ACER.


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Chapter 1. Introduction and overview

1.1 Scope and Purpose

In accordance with Article 5 of the Regulation (EU) n°543/2013\(^1\), hereafter referred to as the Transparency Regulation, this document aims at specifying:

a) details and format of the submission of data by primary owners to TSOs;

b) standardised ways and formats of data communication and exchange between primary owners of data, TSOs, data providers and the ENTSO for Electricity;

c) technical and operational criteria which data providers would need to fulfil when providing data to the central information transparency platform; and

d) appropriate classification of production types.

1.2 Readership

This document particularly addresses primary owners of data, data providers and data consumers. It nevertheless generally aims at providing any party with all the information necessary to submit or extract data to or from the ENTSO for Electricity central information transparency platform (hereafter the “transparency platform”).

This document should consequently become the source to find:

1) all information required for a data provider to develop and operate a system to submit data to the transparency platform, or do this interactively through a web browser; and

2) all information required to develop and operate a system to extract data from the transparency platform, or to do this interactively through a web browser.

It must nevertheless be noted that this document does not duplicate material published elsewhere. If such material is required, it is included by reference only. This is particularly important for definitions that are common to other domains such as network codes.

This document is constructed as an on-line resource in order to facilitate cross-referencing to other materials, such as the detailed data descriptions, Web Services and MADES [IEC 62325-503], definitions, Implementation Guides and interoperability test specifications. A PDF version of this document can be exported for download, but only the on-line copy is definitive.

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1.3 How to use this Manual of Procedures

Chapters 1 to 4 provide general information about the transparency platform and the data it contains. Chapter 5 has information relating to technical standards and, chapter 6 includes additional information specific to data providers and chapter 7 provides information for users of the data. Both chapters 6 and 7 include references to standardised ways and formats of data communication for submitting and obtaining data.

The material referenced in the Manual of Procedure builds on the Transparency Regulation as follows:

a) the detailed data descriptions [2] (see chapter 3) define further the content and structure of the data which must be published in accordance with the Transparency Regulation.

b) the business requirements specification [13] (see chapter 4) explains how master data is pre-configured on the transparency platform, what are the business validation rules (both general and per data item) and how monitoring is carried out; and

c) the implementation guides [5] to [9] (see chapter 5) define the formats and structures for data submission and download.

1.4 Historical Data

In accordance with the Transparency Regulation, the data shall be available for at least five years. The transparency platform will thus preserve these data for a period of five years from the effective date of their

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submission. It will be possible to select within that time span directly on the transparency platform. In order to access older data or data collected by the ENTSO for Electricity prior to the launch of the transparency platform, please contact the transparency platform administration team at the ENTSO for Electricity.

1.5 Data Quality

The quality of data published on the transparency platform is assured in the following ways:

a) XML schemas required by the implementation guides (see chapter 3) constrain the values and data types that can be submitted; and

b) submitted data is subject to business validation rules as described in the business requirements specification on (chapter 4) so that erroneous data is rejected.

In the event that a data provider inadvertently submits numerically incorrect data it can be corrected by re-submission or direct updating by a data provider logged in with appropriate authorisation (see chapter 6).

1.6 Data Security

The integrity of data is assured in the transparency platform in two respects:

a) data transfer methods used for submission are secure (see section 5.1) and only authenticated submitters can submit data to the transparency platform; and

b) access controls prevent unauthorised modification of data once stored.

The use of web services and MADES [IEC 62325-503], access methods require the use of digital certificates. The ENTSO for Electricity operates a Certificate Authority function for control of the MADES [IEC 62325-503], access. Digital Certificates issued by Certification Authorities duly validated by national or EU bodies will be accepted for Web Services (see section 6.4 on data channels for further information).

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Chapter 2. Terms

In addition to the terms defined in the Transparency Regulation, many definitions are provided on the ENTSO for Electricity Metadata Repository website. (See [15]).

This is the master repository for definition of terms and covers the majority of terms found in this document.

The following additional terms may be useful to readers of the document:

a) **Master Data:**

Master Data means the details of key business entities referenced on the transparency platform, such as parties, areas, resource objects (such as production and generation units). Master data changes slowly compared to the market, operational and forecast data submitted to the transparency platform and is managed either by the transparency platform administration team or by data providers where appropriate (particularly resource object data).

b) **Reference Data:**

Reference Data means static codings of common entities or values, often externally defined, such as country codes, currencies, measurement units, and also production (fuel) types, and other coded value lists included in EDI code lists. Reference data changes rarely and is managed through the transparency platform administration team.

Please see the supporting documents [2], [5], [6], [7] and [8] for other definitions.
Chapter 3. Detailed Data Descriptions

Based on the description of the data to be published as established in the Articles 6 to 17 of the Transparency Regulation, the detailed data descriptions define further the content and structure of such data. These detailed data descriptions are provided in a separate document [2].
Chapter 4. Business Requirements Specification

The business requirements specification (BRS) describes how data is submitted to and acknowledged by the transparency platform, what validations are performed and how data is processed and eventually published.

Similarly to the chapter 3 on detailed data descriptions, the business requirements specification contains a dedicated chapter for each of the Article 6 to 17 of the Transparency Regulation describing the data to be published.

The BRS also describes the master data and reference data that must be recorded on the transparency platform prior to any data submission.

The business requirements specification is provided in a separate document [13].

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Chapter 5. Implementation Guides and EDI Standards

5.1 Introduction

The implementation guides define standardised ways and formats of data communication and exchange between primary owners of data, TSOs, data providers and the ENTSO for Electricity as required by Article 5(1)(b) of the Transparency Regulation. The described data exchange formats within the implementation guides shall ensure that a common interface can be provided between different software solutions. These documents make use of XML schemas and code lists defined by the ENTSO for Electricity which can be found in the ENTSO for Electricity EDI library².

The detailed data descriptions (see Chapter 3) distinguishes four categories of data (load, generation, transmission and balancing) to be reported under the Transparency Regulation and includes data on unavailability under each of these categories. While there is an implementation guide for each of these four categories, a fifth implementation guide is dedicated to data on unavailability. This reflects the commonality of data structures for exchange.

5.2 Electronic Document Interchange (EDI) Standards

5.2.1 Implementation Guide for Generation and Load Transparency Process

The implementation guide for the generation and load transparency process is provided in a separate document [5].

5.2.2 Implementation Guide for Unavailability Transparency Process

The implementation guide for the unavailability transparency process is provided in a separate document [6].

5.2.3 Implementation Guide for Balancing Transparency Process

The implementation guide for the balancing transparency process is provided in a separate document [7].

5.2.4 Implementation Guide for Transmission Transparency Process

The implementation guide for the transmission transparency process is provided in a separate document [8].

5.2.5 Implementation Guide for Configuration Transparency Process

The implementation guide for configuration transparency process is provided in a separate document [9].


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5.3 Other applicable EDI Standards

The following other standards from the EDI library further define the operational characteristics of the transparency platform:

- ENTSO for Electricity EDI acknowledgement document (see [16])
- ENTSO for Electricity EDI problem statement document (see [17])

5.4 Identification Coding

Certain data whose publication is foreseen by the Transparency Regulation require identifying the specific asset they refer to. This is the case for instance for forecast generation (Art14. (1)(a) and (b) of the Transparency Regulation) or for information relating to the unavailability of generation and production units (Art 15 (1)(a) to (d) of the Transparency Regulation) and Actual Generation (Art 16(1)(b) Transparency Regulation).

To identify those assets, the transparency platform uses the Energy Identification Coding (EIC) Scheme (see [12]).

To obtain EIC identifiers for your assets whose information should be reported in accordance with the Transparency Regulation, please contact:

- your Local Issuing Office (LIO);
- the ENTSO for Electricity, whenever no LIO is established in your area. Please contact the transparency platform administration team for details.

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Chapter 6. Information for Data Providers

6.1 Assessment and prior Agreement of a Data Provider

Introduction

In accordance with Article 4(1) of the Transparency Regulation, primary owners of data should normally submit their data to their TSOs in a manner that allows TSOs to process and deliver the data to the ENTSO for Electricity. This is without prejudice to the right of TSOs to delegate this activity to a third party.

The Article 4(2) of the Transparency Regulation opens an alternative to the submission of data by the primary owner of data to the TSO. Indeed, the Article 4(2) foresees the possibility for primary owner of data to “fulfil their obligation […] by submitting data directly to the central information transparency platform provided they use a third party acting as data provider on their behalf.”

This opportunity is open “in order to make best use of existing sources of transparency, [so that] the ENTSO for Electricity [is] able to receive information for publication through third parties such as power exchanges and transparency platform”.

The Article 4(2) further states that “this way of submitting data shall be subject to the prior agreement of the TSO in whose control area the primary owner is located. When providing its agreement the TSO shall assess whether the data provider fulfils the requirements referred to in point (b) and (c) of Article 5(1).”

This section therefore establishes the requirements referred to in point (b) and (c) of the Article 5(1) Transparency Regulation and the process which TSOs should follow when assessing the compliance of a data provider with the above-mentioned requirements.

Requirements to be complied with by Data Provider

The requirements referred to in point (b) and (c) of Article 5(1) Transparency Regulation relate to:

- “standardised ways and formats of data communication and exchange between primary owners of data, TSOs, data providers and the ENTSO for Electricity” ; and

- “technical and operational criteria which data providers would need to fulfil when providing data to the central information transparency platform”.

These requirements are detailed in chapter 4 on business requirement specification and chapter 5 on implementation guides and EDI standards.

Assessment of Compliance with the Requirements

The TSO in whose control area the primary owner of data is located should assess whether the data provider fulfils the requirements and, in the affirmative, provide its agreement for the primary owner of data to submit its data via the data provider acting on their behalf.

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3 See Recital (12) of Commission Regulation (EU) No 543/2013 of 14 June 2013 on submission and publication of data in electricity markets.

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The process should respect the following steps:

1) Submission by the primary owner of data of a request for the TSO’s prior agreement. The request should:
   a. clearly identify the data provider which would provide its services to the primary owner of data;
   b. provide the necessary contact details allowing the TSO to directly contact the data provider;
   c. indicate the data the primary owner of data will provide through this data provider;

2) Assessment by the TSO of the data provider’s compliance with the requirements referred to above. This assessment should take the form of an interoperability test organised with the support of the ENTSO for Electricity in accordance with the specifications established in the sub-section 6.2.2;

3) Registration with the ENTSO for Electricity of the data provider which successfully passed the interoperability test, in accordance with the requirements established in the sub-section 6.2.1.; and

4) Agreement of the TSO for the primary owner of data to submit its data via the data provider.

TSOs should proceed to the assessment within a period of two months as from the submission by the primary owner of data of the request to the TSO.

6.2 Data Provider Responsibilities

6.2.1 Registration

Data providers are required to register with the transparency platform and provide contact information for technical and business queries, and to notify the ENTSO for Electricity concerning the Area and data items for which they will be a data provider.

Once registered, data providers can create and update user accounts, including those for machine-to-machine submission to the transparency platform. A name and email address are required for user accounts. Specific details for data submission channels can be configured on the account.

Contact details for the service desk and for the transparency platform administration team at the ENTSO for Electricity will be provided.

6.2.2 Interoperability and Compliance Testing Regime

Before submitting data, data providers are requested to complete interoperability and compliance testing with the transparency platform. This covers connection and transfer methods. A public test environment is available for this purpose. To arrange testing, contact must be made with the transparency platform service desk.

The transparency platform interoperability test specification process is provided in a separate document [11].

6.2.3 Pre-registration of Master Data

Data providers should note that data items concerning Generation, Load and Unavailability (including some transmission assets) require certain static attributes of the assets in question to be pre-registered as master data”. The master data should then be synchronised or updated on the platform whenever it changes.

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6.2.4 Monitoring of Data Submissions

Data providers are encouraged to make regular checks that their data is received and published as expected. The transparency platform will, where appropriate, monitor data arrival against expected submission times as defined in the Transparency Regulation.

When submission of data by a data provider becomes overdue, the data provider is notified by transparency platform using the methods described in the EDI Problem Statement Document [see 17] and optionally also by email.

Each data provider can access on the transparency platform an overview of his pending and erroneous data submission, per data item. The user interface allows data provider to identify each data instance for further details. Data providers can turn the monitoring option on and off as they wish for each category of data. The monitoring is activated per default.

6.3 Data Submission Channels (system to system)

Introduction

The transparency platform has three communication channels through which data can be directly submitted by external systems. These communication channels are:

a) Market Data Exchange Standard (MADES) [IEC 62325-503] (see [3])

b) Web Services (see [4]); and

c) Secure File Transfer (ftp).

These are described in more detail in the following sub-sections. Each data provider is expected to use only one of these channels for all data submissions. Nevertheless it is possible to use a combination of several channels if necessary.

Communication Channels

a) MADES [IEC 62325-503]

MADES specifies a framework for asynchronous communication, providing reliable message delivery, independently of underlying communication infrastructure. It relies on non-proprietary standards for communication protocols, data integrity, signing and confidentiality, peer access point and party authentication and identification (https, SOAP, x.509 etc.)

A reference package implementation of the MADES software (“Energy Communication Platform” - ECP) necessary to implement MADES connection locally is available from the ENTSO for Electricity. The ECP software is validated for common operating environments and the license for local use for the purpose of connection to the transparency platform is free of charge to data providers.

Data providers are of course also free to develop their own implementation of the MADES standard. This would nevertheless require more extensive validation to demonstrate compliance with the MADES standard in addition to the transparency platform connection compliance.

b) Web Services

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The transparency platform supports a set of web services that provide all the functionality required to interact with the transparency platform in a secure and reliable form.

The web services specification for the ENTSO for Electricity Transparency Platform is provided in a separate document [4]

c) **Secure File Transfer (ftps)**

For data providers who are expected to submit only small number of data or to submit on an irregular basis, secure file transfer will be made available as an alternative to the two previous communication channels. As this method does not provide the same degree of reliability and security, this method is not preferred for regular and/or large-scale data submission.

### 6.4 Submission Acknowledgement

Data submission is acknowledged in accordance with the ENTSO for Electricity Acknowledgement process. The ENTSO for Electricity EDI Acknowledgement document is provided in a separate document [16].

### 6.5 Data Submission via Website

In addition to the machine-to-machine interface for submission of data, it is also possible to load data through the transparency platform web portal. This includes uploading of files, and entering and modifying individual values through web forms. Access to these facilities on the web portal requires login using a username to which the necessary privileges are granted.

> <the following detail will be provided once the design of the web forms is completed>

**How to use the online web presence to submit data:**

- Login/logout to data provider pages
- Limitations on submitting
- Direct upload of data file
- Entering and Modification of individual values

### 6.6 Validation of Submitted Data

The submitted data is subject to two stages of validation:

a) against EDI standards as described in the implementation guides – XML schema compliance; and

b) against business rules configured on the transparency platform.

The business rules answer the questions such as:

- Is the submitter registered as permitted to submit this data for this area?
- What is the expected number of time periods per business day (normally covering 24 hours, but 23 or 25 required on Spring and autumn clock change days

The business requirements specification is provided in a separate document [13].

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6.7 Version Control and Updating of submitted Data Files

Submitters are able to replace previously submitted data. This is done by re-submitting the XML document. A replacement XML document for the same data item submission should have the version number incremented. Technical rules for versioning are provided in detail in the implementation guides (see chapter 5).

6.8 Checking and Updating Data Values

*<this section will be completed once the design of the web forms is completed>*

- How to check your data: accessing additional information on the website

6.9 Managing Users

Users are able to create and administer their own user accounts. The transparency platform administration team can enable specific data provider privileges to enable data providers to undertake monitoring and checking of data, and correction of data items directly through the web pages.

*<this section will be completed once the design of the web forms is completed>*

- How to request new users for your organisation; how to reset passwords; etc.

6.10 Managing Master Data

Data providers must pre-register certain master data on the transparency platform before submitting any data item related to this master data. This master data needs to be kept up to date. The master data can be submitted using the process in the Implementation Guide for the Configuration Transparency Process (see [9]).

6.11 Configuration Management – Reference and Master Data

Any changes in shared information about market participants, market areas, bidding zones or other master or reference data applying to more than one data provider will be managed by the transparency platform administration team through transparency platform configuration.

Changes will be announced to the relevant parties in advance and corresponding values will be available for download from the transparency platform.

The transparency platform administration team should be informed data providers observe that any values in the shared master or reference data require updating.

*<this section will be completed once the design of the web forms is completed>*

- How to check and modify values of reference/master data for which you are the data custodian.

6.12 System Messages

Information for data providers concerning the operation of the transparency platform, such as changes to reference data, planned unavailability of any function on the transparency platform is available through a
number of channels. A message board can be accessed by registered data provider users and it is also possible to subscribe to message delivery through email or SMS.

<this section will be completed once the design of the web forms is completed>

- How to see system messages
- How to subscribe/unsubscribe to message delivery to email/SMS

6.13 Support and Service Levels

The transparency platform is in operation 24/7. In the event that scheduled downtime should be required, the downtime period should normally not exceed 30 minutes and will be notified in advance to data providers through the noticeboard and through system messages delivered via channels nominated by data providers through their registration information.

In case of technical problems for data submission, please contact the service desk using the contact details provided to you as a data provider.
Chapter 7. Information for market participants who use the data

7.1 Registration

It is not necessary to register to use the transparency platform and obtain information. Nevertheless some advantages are provided with registration. When registering, a market participant can for instance specify a default initial view to be displayed when login in. The market participant can also specify user preferences for the display which will be saved.

7.2 Website

The transparency platform is designed to be easy to use without any training, allowing a smooth navigation between the subject areas with a minimum number of clicks. The transparency platform is designed to better work with the following browsers types and versions (to be revised in future):

- Internet Explorer 8;
- Mozilla Firefox 19;
- Google Chrome 25; and
- Safari 6.

The transparency platform can also be accessed using mobile devices and tablets.

7.3 Direct Data Downloads

As well as reading individual data items from the transparency platform datasets can be downloaded on demand through forms on the web pages. Downloads are formatted in XML in accordance with the implementation guide for the data area (Load, Generation, Unavailability, Balancing and Transmission – see chapter 5).

7.4 Data Subscriptions

Most data on the transparency platform can be received through a publish/subscribe system. To subscribe, the registration of a receiving web service is required which will be associated with certain data sets. When new data in the areas subscribed is published, a corresponding download file will be pushed to the registered service.

The web services specification for the ENTSO for Electricity transparency platform is provided in a separate document [4].

7.5 Enquiries – Support and Service Levels

The transparency platform is in operation 24/7. In the event that scheduled downtime should be required, this will be notified in advance through the noticeboard and will not normally exceed 30 minutes duration. In the

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event of transparency platform unavailability, data submissions and scheduled publication (subscription services) will be queued.

For further information please see the contact information section of the transparency platform website.
Chapter 8. Classification of Production Types

Article 5 of the Transparency Regulation specifies that the ENTSO for Electricity develops a Manual of Procedures specifying “appropriate classification of production types referred to in Articles 14(1), 15(1) and 16(1).”

Production types will be required for information related to forecast generation (Art14(1)(a) and (b)), information relating to the unavailability of generation and production units (Art 15(1)(a), to (d)) and Actual Generation (Art 16(1)(b)).

### Production Type

<table>
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<th>Sub-Class</th>
<th>Complete Term</th>
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REFERENCES DOCUMENTS

[1] Transparency Regulation

[2] Detailed Data Descriptions
See attached document. Link to be defined for the final (online) version.

[3] Market Data Exchange Standard (MADES) v1r0

See attached document. Link to be defined for the final (online) version.

See attached document. Link to be defined for the final (online) version.

See attached document. Link to be defined for the final (online) version.

See attached document. Link to be defined for the final (online) version.

See attached document. Link to be defined for the final (online) version.

[9] Implementation Guide for the Configuration Transparency Process
See attached document. Link to be defined for the final (online) version.

[10] (Reference for future use)


[12] Energy Identification Coding Scheme

See attached document. Link to be defined for the final (online) version.

[14] EDI code list ENTSO for Electricity-CODE-LIST

[15] ENTSO for Electricity Metadata Repository
https://emr.entsoe.eu/glossary/bin/view/Main/

[16] ENTSO for Electricity EDI Acknowledgement document v5r1
See attached document. Link to be defined for the final (online) version.

[17] ENTSO for Electricity EDI Problem statement document
https://www.entsoe.eu/fileadmin/user_upload/edi/library/epsd-v1r0/epsd-guide-v1r0.pdf

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