# Balancing and Settlement Code

# CVA Data Catalogue

## Version 22.0

## Date: 29 March 2019


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# CVA DATA CATALOGUE

1. Reference is made to the Balancing and Settlement Code and, in particular, to the definition of "Data Catalogue" in Section X, Annex X-1 thereof.

2. This CVA Data Catalogue is Version 22.0.

3. This CVA Data Catalogue is effective from 29 March 2019.

4. This CVA Data Catalogue has been approved by the Panel.

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# AMENDMENT RECORD

| Version | Effective Date | Description of Change | Changes Included | Mods/Panel/ Committee Refs |
|---|---|---|---|---|
| 1.0 | April 2000 | Draft For Review | | |
| 1.0 | May 2000 | Post Internal Review | | |
| 1.1 | June 2000 | Inclusion of BMRA interfaces | | |
| 2.0 | August 2000 | NETA Baseline v1.3 | | |
| 3.0 | March 2001 | NETA Baseline V3.2 | | |
| 4.0 | August 2001 | Authorised, Modification P10, Change Proposal 519 and additions for consistency with NETA IDD 3.6 and EPFAL manual flows | | |
| 5.0 | August 2002 | Release 2 Final | P8, P18a, P33, CP508, CP527, CP547, CP555, CP560, CP569, CP593, CP595, CP597, CP615, CP619, CP755 | |
| 6.0 | December 2002 | December Release Final | CP511, CP532, CP559, CP566, CP632, CP751 | |
| 7.0 | March 2003 | February 2003 Release | P55, P71, P78, CP753, CP754, CP797 | |
| 8.0 | June 2003 | June Release Final | CP553, CP571, CP577, CP703, CP743, CP750, CP756, CP777, CP832, CP841, CP858, CP869, CP877 (P4 and P78 Previous Releases) and CP708 | |
| 9.0 | November 2003 | November 2003 Release Final | | |
| 10.0 | June 2004 | CVA June 2004 Release (Final) | P98, CP915, CP998. Further P98 review comments applied. P82 Removal | ISG/40/003 |
| 11.0 | November 2004 | CVA November 2004 Release | P98 Phase 2 | |
| 12.0 | February 2005 | CVA February 2005 Release | CP1078, P140 | |
| 13.0 | November 2005 | CVA Programme November 2005 Release | CP1061 P192 | ISG/48/002 |
| 14.0 | November 2006 | BSC Systems November 2006 Release P194 | P194 | |
| 15.0 | 23 August 2007 | P197 Release | P197 | P/115/04 |


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| Version | Effective Date | Description of Change | Changes Included | Mods/Panel/ Committee Refs |
|---|---|---|---|---|
| 16.0 | 26 June 2008 | June 08 Release | CP1223 | ISG84/01 |
| 17.0 | 6 November 2008 | November 08 Release | P214 | ISG90/04 |
| 18.0 | 25 June 2009 | June 09 Release | CP1265 | ISG97/01 SVG97/01 |
| 19.0 | 5 November 2009 | November 09 Release | P217 | Panel 142/06 |
| 20.0 | 7 November 2013 | November 2013 Release | CP1399 | ISG149/04 |
| 21.0 | 16 December 2014 | December 2014 Release | P291, P295 | ISG162/01 |
| 22.0 | 29 March 2019 | 29 March 2019 Standalone Release | P369 | P285/12 |


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# 1 Purpose and Scope

## 1.1 Purpose of this document

This document, the CVA Data Catalogue contains information relating to all the communication interfaces between CVA BSC Agents or the National Electricity Transmission System Operator (NETSO) and BSC Parties and Party Agents.

This document specifies, where appropriate, references to relevant sections of the NETA and EPFAL IDD Part 1 documents. The NETA and EPFAL IDD Part 1 documents contain information on data items and file formats, the participants involved in exchange of each file, and references to the owner of each file and its associated network (where this detailed information is not available in the NETA and EPFAL IDD Part 1 documents, it will be included in this document). It provides a consolidated repository of NGC EDT/EDL specs.

This document is a Code Subsidiary Document and its purpose is to form the Data File Catalogue for all CVA communications, as set out in the BSC Section O.

## 1.2 Scope of the CVA Data Catalogue

The CVA Data Catalogue includes all data interfaces between CVA BSC Agents (SAA, CRA, BMRA, ECVAA, CDCA, FAA) or the NETSO and Parties or Party Agents. It does not include SVAA interfaces, which are specified in the SVA Data Catalogue, and it does not include communications between central service providers.

Because of the different nature of the NETSO's EDL interface this has been excluded from the Data Dictionary and included as a separate Annex C.

# 2 Reference Documents

The following documents are referenced by the CVA Data Catalogue.

## 2.1 SAA, CRA, BMRA, ECVAA and CDCA Interfaces

NETA Interface Definition and Design Document (Part 1).

NETA Interface Definition and Design Spreadsheet (Part 1).

## 2.2 NETSO Interfaces

EDT Interface Specification

EDL Interface Specification

## 2.3 FAA Interfaces

EPFAL Interface Definition and Design (Part 1).


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# 3 Interface Specifications

This section specifies the general principles that apply to all data files in the electronic data file transfer interfaces between Parties (or their agents) and the NETSO's Electronic Data Transfer (EDT) Interface.

Full details of the NETSO's Electronic Dispatch Logging (EDL) are given in Annex [C] of this document.

For information on CVA BSC Systems Interface Specifications, please refer to the NETA IDD Part 1 document and spreadsheet.

For information on FAA Interface Specifications, please refer to the EPFAL IDD Part 1 document.

## 3.1 NETSO EDT Interface Specifications

### 3.1.1 Data File Format

All data will be submitted using the single file format specified below. All data types for Balancing Mechanism Units (BMUs) assigned to the BSC Parties and their Agents may be included within the file.

Data within the file will be validated on a record by record basis.[1]

Submissions for each BSC Party or Agent[2] will be made in Comma Separated Value (CSV) text formatted files. Each submission file will consist of one or more records, with each record being a single line of text.

### 3.1.2 File Header

The File header format is as follows.

| Field | Format | Comments | |
|---|---|---|---|
| Data Record Type | Alphanumeric | Up to 4 Characters.<br>One of: | |
| | | PN | Physical Notification |
| | | QPN | Quiescent Physical Notification |
| | | BOD | Bid-Offer Data |
| | | MEL | Maximum Export Limit |
| | | MIL | Maximum Import Limit |
| | | RURE | Run Up Rates Export |
| | | RURI | Run Up Rates Import |
| | | RDRE | Run Down Rates Export |
| | | RDRI | Run Down Rates Import |
| | | NDZ | Notice to Deviate from Zero |
| | | NTO | Notice to Deliver Offers |
| | | NTB | Notice to Deliver Bids |

[1] Although, hypothetically, there is no upper limit to the frequency with which data may be submitted or to the size of data files, it is possible that an error on a Client system might jeopardise the stability of the entire EDT submission system by resubmitting a large file at frequent intervals. For this reason, if BSC Party's frequency of submissions exceeds a defined normal rate for a sustained period, then that Party's, or their Agent's, account shall be locked until they contact NGC to resume normal service.

[2] All nomenclature of Agents and their respective BMUs, including the 9-character field above, will be agreed between NGC and the relevant Agent or their representative as part of the Agent/BMU registration process.


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| Field | Format | Comments | |
|---|---|---|---|
| | | MZT | Minimum Zero Time |
| | | MNZT | Minimum Non-Zero Time |
| | | SEL | Stable Export Limit |
| | | SIL | Stable Import Limit |
| | | MDV | Maximum Delivery Volume |
| | | MDP | Maximum Delivery Period |
| BSC Party or Agent Name | Alphanumeric | Up to 9 Characters | |
| BM Unit Name | Alphanumeric | Up to 9 Characters | |

### 3.1.3 File Footer

The text string '<EOF>' indicates the end of the file.

### 3.1.4 Record Formats

Each record will consist of a number of fields, each separated by a comma. Each record will include a record header consisting of the same initial fields, as shown in section 3.1.2 above. The remainder of each record will contain data according to the data record type included in the record header, as defined in the main body of the CVA Data Catalogue below.

Any records that start with an asterisk ('*') will be ignored, thereby allowing comments to be included in submission files.


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### 3.1.5 Repeating Structure

The repeating structure is as defined as follows.

| Id | Row Type | range | L1 | L2 | L3 | L4 | data type | valid set | item name/group description (comments) |
|---|---|---|---|---|---|---|---|---|---|
| EDT01 | F (File Type) | | | | | | | | Title of Flow (plus sub-flow number where appropriate) |
| ABCD | R (Record Type) | | | | | | | | record type appears as the first field in an electronic file. Record types are unique within a file type but not across all file types. The same file type may be reused in a different flow with a different structure. |
| Tnnnn | D (Data Item) | | | | | | | | Each data item is assigned a Data Item Id. The Data Item Id is used for all occurrences of the same Data Item. |
| | | 1-* | | | | | | | range indicates how many occurrences of this record type may appear at the current level. (comment may further refine the repeating rules)<br>0-* indicates unlimited repeat (optional record type)<br>1-* indicates unlimited repeat with at least one instance of the record type<br>1 indicates the record type appears exactly once<br>2 indicates the record type appears exactly twice<br>48 indicates that this record type is repeated 48 times<br>46-50 is used where a record type is repeated 46, 48 or 50 times to contain settlement data. |
| | | | G | | | | | | G indicates that this is a repeating group i.e. a record type |
| | | | | 1 | | | | | 1 indicates that this is a data item within a record type |
| | | | | O | | | | | O indicates that this is an optional data item within the record type (in electronic files, this means that the field may be empty) |
| | | | | | | | | | Data items and nested record types must appear in the order stated. |
| | | | | | | | | | L1, L2… define the nesting structure. |
| | | | | | | | | | |
| | | | | | | | text(9) | | this field will contain a text string with up to 9 characters |
| | | | | | | | integer(n) | | this field will contain an integer with an optional leading "-" followed by up to n digits |


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| Id | Row Type | range | L1 | L2 | L3 | L4 | data type | valid set | item name/group description (comments) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | decimal | | this field will contain a real number |
| | | | | | | | decimal (n,d) | | this field will contain a real number. There will be an optional leading "-" followed by up to d digits after the decimal point and up to (n-d) before the decimal point |
| | | | | | | | char | | this field will contain a single character |
| | | | | | | | boolean | | this field will contain a single character T or F |
| | | | | | | | date | | this field will contain a date YYYYMMDD |
| | | | | | | | datetime | | this field will contain a date and time YYYYMMDDHHMMSS |
| | | | | | | | | valid set id | the field's values are constrained to be within the definition of the identified valid set - see section 2.2.11 |


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### 3.1.6 File naming

Each submission file will have a file name consisting of two parts and a file extension. The file extension will be '.SBM' to indicate that the file contains submission data defined to be as follows:

| Title | Meaning | Field Size | Field Format | Comments |
|---|---|---|---|---|
| TANAME | BSC Party or Agent Name | 9 | XXXXXXXXX | name should be padded with '_' to the full field width |
| SEQNO | Sequence number | 4 | 9999 | the submission sequence number |

Thus, the filename will be of the form

XXXXXXXXX9999.SBM

For example, for a BSC Party or their Agent the name 'TR_AGT', for which the previously submitted file sequence number was 20, the file name would be:

TR_AGT___0021.SBM

The BSC Party or their Agent portion of the name must correspond with the agreed name of the submitting agent. All submission files must have a 'SBM' file type marker. If these conditions are not met, the submitted file will be rejected in its entirety.

### 3.1.7 Use of Sequence Numbers

The submission sequence number contained within the file name must be submitted successively. Each time a file is submitted the sequence number should be incremented by one. Should a file be submitted out of sequence it will be rejected in its entirety. All subsequent out of sequence files will be rejected until a file with sequence number corresponding to the last successful submission sequence incremented by one is submitted.

The first submission made via EDT to the NETSO by a BSC Parties or their Agents should have a submission sequence number of 0001. Leading zeroes should be included to the full field width. After submission 9999 the next submission number should roll over to 0001.


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### 3.1.8 Time

All times are GMT and must be a whole number of minutes. In the table definitions, the following field format conventions are used:

Time format: [CCYY-MM-DD hh:mm] where the following definitions apply:

| | | |
|---|---|---|
| CCYY | year | (numeric) |
| MM | month | (numeric) |
| DD | day | (numeric) |
| | a single space separator between date and time:[3] | |
| hh | hours | |
| mm | minutes | |

## 3.2 NETSO EDL Interface Specifications

### 3.2.1 Principle

The EDL Interface is a message based rather than file based system, and as such is not part of this document. For completeness, however, an overview has been included in Annex C. The interface between the NETSO and Participants will in general be implemented by one of the suppliers providing this service. The necessary information for producing such an interface is available directly from the NETSO.

# 4 Data File Description Standards

All standards relating to electronic CVA BSC Agent interfaces and the data items contained therein are specified in the NETA IDD Part 1 document.

[3] Whilst all data handling is automatic, the NGC format is intended to be as legible as possible. Generally additional spaces are allowed either side of fields. The only restriction on additional spaces is in the date/time field separating the date and time portions, where only a single space character must be present.


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