



Redlined NETA Interface Definition and Design: Part 2 Interfaces to other Service Providers text for P369 ‘National Grid Legal Separation changes to BSC’

This Modification proposes changes to Contents, sections 2.1, 3.2.3, 4.5, 4.8, 5.0, 5.1, 5.2, 5.13, 5.19, 5.23, 5.27, 5.29, 5.30, 5.32, 7.44, 7.56, 7.58, 8.7, 9.44 and 9.51. We have redlined these changes against Version 37.0.

There is no impact on any other part of this document for this Modification.

Amend Table of Contents as follows:

Table Of Contents

1	Introduction	9
1.1	Purpose	9
1.1.1	Summary	9
1.2	Scope	9
1.2.1	The Scope of this Document	9
1.3	Summary	9
1.4	Amendment History	11
1.5	References	11
1.6	Abbreviations	11
2	Common Interface Conventions	13
2.1	Interface Mechanisms	13
2.1.1	Manual	13
2.1.2	Electronic Data File Transfer	13
2.1.3	Internal Interfaces	15
2.1.4	Repeating Structure	15
2.1.5	File names	15
2.1.6	Unstructured File Format	16
2.1.7	Acknowledgement Messages and Sequence Numbers	16
2.1.8	Time	16
2.1.9	Valid Sets	16
3	External Interface Summary	18
3.1	Interfaces by BSC Agent	18
3.1.1	BMRA Interfaces	18
3.1.2	CDCA Interfaces	19
3.1.3	CRA Interfaces	19
3.1.4	ECVAA Interfaces	21
3.1.5	SAA Interfaces	22
3.2	Interfaces by Corresponding Party	24
3.2.1	BSCCo Ltd Interfaces	24
3.2.2	FAA Interfaces	26
3.2.3	System Operator <u>Transmission Company</u> Interfaces	26
3.2.4	Stage 2 Interfaces	27
3.2.5	Transfer Coordinator Interfaces	27
3.2.6	Internal Interfaces	27
3.2.7	EMR Settlement Services Provider Interfaces	28
4	Interfaces From and To Multiple Parties	29

4.1	CRA-I004: (input) BSC Service Agent Details	29
4.2	CRA-I013: (output) Issue Authentication Report	30
4.3	CRA-I015: (output) BM Unit, Interconnector and GSP Group Data	32
4.4	CRA-I020: (output) Operations Registration Report	34
4.5	CRA-I028: (output) NGC Standing Data Report	36
4.6	ECVAA-I016: (output) ECVAA Data Exception Report	37
4.7	ECVAA-I025: (output) Credit Cover Minimum Eligible Amount Report	37
4.8	SAA-I013: (output) Credit/Debit Reports	38
5	Interfaces From and To System Operator <u>the Transmission Company</u>	39
5.1	BMRA-I002: (input) Balancing Mechanism Data	39
5.2	BMRA-I003: (input) System Related Data	40
5.3	BMRA-I010: (output, common) Data Exception Reports	41
5.4	BMRA-I014: (input) Price Adjustment Data	42
5.5	BMRA-I020: (input) BM Unit Fuel Type List	43
5.6	BMRA-I021: (input) Temperature Reference Data	43
5.7	BMRA-I022: (input) Daily Energy Volume Reference Data	44
5.8	BMRA-I023: (input) Wind Generation Registered Capacities	44
5.9	BMRA-I034: (input) Trading Unit Data	45
5.10	CDCA-I012: (output, part 1) Report Raw Meter Data	45
5.11	CDCA-I029: (output, part 1) Aggregated GSP Group Take Volumes	45
5.12	CDCA-I042: (output, part 1) BM Unit Aggregation Report	45
5.13	CDCA-I049: (output) Total Demand per GSP	45
5.14	CDCA-I051: (output) Report Meter Technical Details	46
5.15	CDCA-I067: (input) Disconnected CVA BM Units	46
5.16	CRA-I007: (input/output) Boundary Point and System Connection Point Data	46
5.17	CRA-I008: (input) Interconnector Registration Details	46
5.18	CRA-I013: (output, common) Issue Authentication Report	46
5.19	CRA-I014: (output, part 1) Registration Report	46
5.20	CRA-I020: (output) Operations Registration Report	46
5.21	CRA-I028: (output) NGC Standing Data Report	46
5.22	SAA-I012 (input, part 1) Dispute Notification	46
5.23	SAA-I014 (output) Settlement Report	47
5.24	SAA-I017: (output, common) SAA Data Exception Report	51
5.25	SAA-I018 (output, part 1) Dispute Report	51
5.26	SAA-I026: (input) Price Adjustment Data	52
5.27	SAA-I033: (input) Receive Request for Data Change	53
5.28	BMRA-I024: (input) Large Combustion Plant Directive Spreadsheet	53

5.29	BMRA-I025: (input) SO-SO Prices	54
5.30	BMRA-I026: (input) SO-SO Standing Data	55
5.31	BMRA-I028: (input) Receive REMIT Data	55
5.32	BMRA-I029: (input) Receive Transparency Regulation Data	56
6	Interfaces From and To FAA	57
6.1	CRA-I004: (input, common) BSC Service Agent Details	57
6.2	CRA-I013: (output, common) Issue Authentication Report	57
6.3	CRA-I015: (output, common) BM Unit and Energy Account Registration Data	57
6.4	ECVAA-I006: (input) Credit Limit Data	57
6.5	ECVAA-I016: (output, common) ECVAA Data Exception Report	58
6.6	SAA-I011: (input) Payment Calendar Data	58
6.7	SAA-I013: (output, common) Credit/Debit Reports	58
7	Interfaces From and To BSCCo Ltd	59
7.1	BMRA-I010: (output, common) Data Exception Reports	59
7.2	BMRA-I011: (output) Performance Reports	59
7.3	BMRA-I012: (input) System Parameters	60
7.4	BMRA-I013: (output) BMRA BSC Section D Charging Data	61
7.5	CDCA-I014: (output, part 1) Estimated Data Report	62
7.6	BMRA-I016: (input) Receive Market Index Data Provider Thresholds	63
7.7	BMRA-I017: (output) Report Market Index Data Provider Thresholds	64
7.8	CDCA-I018: (output, part 1) MAR Reconciliation Report	65
7.9	CDCA-I019: (output, part 1) MAR Remedial Action Report	65
7.10	CDCA-I022: (input) Distribution Line Loss Factors	65
7.11	CDCA-I023: (output) Missing Line Loss Factors	66
7.12	CDCA-I032: (output) Data Collection and Aggregation Performance Report	67
7.13	CDCA-I047: (output, part 1) Correspondence Receipt Acknowledgement	68
7.14	CDCA-I061 (input) Receive System Parameters	68
7.15	CDCA-I062: (input) Receive Sample Settlement Periods	68
7.16	CDCA-I063: (output) Metered Volume Data for Sample Settlement Periods	69
7.17	CDCA-I064: (output) MOA Proving Tests Report	70
7.18	CDCA-I065: (output) MOA Fault Resolution Report	71
7.19	CRA-I001: (input & output, part 1) BSC Party Registration Data	72
7.20	CRA-I003: (input, part 1) BSC Party Agent Registration Data	72
7.21	CRA-I004: (input, common) BSC Service Agent Details	72
7.22	CRA-I009: (input) Receive Manual Credit Qualifying Flag	72
7.23	CRA-I011: (input) Credit Assessment Load Factors	72
7.24	CRA-I020: (output, common) Operations Registration Report	73

7.25	CRA-I028: (output) NGC Standing Data Report	73
7.26	CRA-I029: (input) Transmission Loss Factors	73
7.27	CRA-I032: (output) CRA Performance Reports	74
7.28	CRA-I034: (input) Flexible Reporting Request	74
7.29	CRA-I035: (output) CRA BSC Section D Charging Data	75
7.30	CRA-I042: (input) Receive Market Index Data Provider Registration Data	75
7.31	CRA-I043: (input) Receive Exempt Export Registration Data	76
7.32	CRA-I044: (input) Withdrawals Checklist Request	77
7.33	CRA-I047: (output) Withdrawals Checklist	77
7.34	ECVAA-I017: (output) ECVAA Performance Report	78
7.35	ECVAA-I021: (output) Credit Limit Warning	79
7.36	ECVAA-I023: (output) ECVAA BSC Section D Charging Data	79
7.37	ECVAA-I026: (output) Minimum Eligible Amount Request	80
7.38	ECVAA-I027: (input) Notification of BSC Parties in Section H Default	80
7.39	ECVAA-I032: (input) Credit Assessment Price	81
7.40	ECVAA-I040: (output) Issue Notification System Status Report	81
7.41	ECVAA-I041: Receive Party Credit Default Authorisation Details	82
7.42	SAA-I010: (input) BSCCo Ltd Cost Data (Redundant)	82
7.43	SAA-I012: (input, part 1) Dispute Notification	83
7.44	SAA-I014 (output) Settlement Reports	83
7.45	SAA-I016: (output, part 1) Settlement Calendar	85
7.46	SAA-I018: (output, part 1) Dispute Report	85
7.47	SAA-I019: (output) BSC Party Performance Reports (Redundant)	85
7.48	SAA-I020: (output) SAA Performance Reports	86
7.49	SAA-I023: (input) System Parameters	87
7.50	SAA-I025: (output) SAA BSC Section D Charging Data	87
7.51	SAA-I027: (output) Report pre-settlement run validation failure	88
7.52	SAA-I028: (input) Receive settlement run decision	88
7.53	SAA-I029: (input) Receive settlement run instructions	89
7.54	SAA-I031: (input) Receive Market Index Data Provider Thresholds	90
7.55	SAA-I032: (output) Report Market Index Data Provider Thresholds	91
7.56	SAA-I034: (output) Report Recommended Data Change	91
7.57	SAA-I035: (input) Receive Instruction for Data Change	92
7.58	SAA-I036: (output) Report Confirmation of Data Change	92
7.59	SAA- I038: (input) Receive Excluded Emergency Acceptance Pricing Information	93
7.60	SAA-I039: (output) Send Excluded Emergency Acceptance Dry Run Results	93
7.61	SAA- I040: (input) Receive Authorisation To Proceed With Full Settlement Run	94

7.62	ECVAA-I049: (input) Request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default	94
7.63	ECVAA-I050: (output) Remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default Feedback.	95
7.64	BMRA-I033: (Input) STOR Availability Window	96
7.65	SAA-I046: (Input) STOR Availability Window	96
7.67	SAA-I047 (input) BSCCo Calculated SBR Imbalance Price	97
7.68	SAA-I048 (output) SBR Imbalance Price Discrepancy Notice	97
8	Interfaces From and To Stage 2	98
8.1	CDCA-I043: (output) GSP Group Take to SVAA	98
8.2	CRA-I004: Agent Details	99
8.3	SAA-I007: (input) BM Unit Allocated Demand Volume	99
8.4	SAA-I016: (output, part 1) Settlement Calendar	99
8.5	SAA-I017: (output, common) SAA Data Exception Report	99
8.6	CRA-I015: (output) BM Unit Registration Data	100
8.7	BMRA-I032: (output) Demand Control Instructions to SVAA	100
8.8	SAA-I045: (input) BM Unit Allocated Demand Disconnection Volume	101
9	Interfaces Within BSC Central Systems	102
9.1	BMRA-I001 (input): Registration Data	102
9.2	BMRA-I007 (output) SAA/ECVAA Balancing Mechanism Data	102
9.3	BMRA-I010: (output, common) Data Exception Reports	103
9.4	BMRA-I018: (input) Publish Credit Default Report	103
9.5	CDCA-I002: (input) Registration Data	103
9.6	CDCA-I016: (input) Information from TAA	103
9.7	CDCA-I020: (input) Site Visit Inspection Report	104
9.8	CDCA-I027: (output) Aggregated Interconnector Meter Flow Volumes	104
9.9	CDCA-I028: (output) Aggregated BM Unit Meter Flow Volumes	105
9.10	CDCA-I034: Settlement Calendar	105
9.11	CDCA-I035: (input) Site Visit Report on Aggregation Rule Compliance	105
9.12	CDCA-I036: (output) GSP Group Take to SAA	106
9.13	CDCA-I039: (output) Information to TAA	106
9.14	CDCA-I050: (input) Data Exception Reports	107
9.15	CDCA-I066: (input) Demand Control Instructions to CDCA	107
9.16	CDCA-I068: (output) Period BM Unit Demand Disconnection Volumes	107
9.17	CRA-I010	107
9.18	CRA-I013: (output, common) Issue Authentication Report	107
9.19	CRA-I015: (output, common) BM Unit and Energy Account Registration Data	107

9.20	CRA-I017 (output): Credit Assessment Capability	107
9.21	CRA-I019: (output) Registration Data	109
9.22	CRA-I022: (output) Metering System Details	111
9.23	CRA-I030: (input) Data Exception Reports	111
9.24	CRA-I045: (input) Withdrawing Party Authorisation and Notification Details	111
9.25	CRA-I046: (input) Withdrawing Party Settlement Details	111
9.26	See SAA-I037 in this section.ECVAA-I001 (input): Registration Data	112
9.27	ECVAA-I011: Account Bilateral Contract Volume Report	112
9.28	ECVAA-I012: MVRN Report	113
9.29	ECVAA-I016: (output, common) ECVAA Data Exception Report	113
9.30	ECVAA-I020: (input) Data Exception Reports	113
9.31	ECVAA-I036: (output) Publish Credit Default Report	114
9.32	ECVAA-I047: (output) Withdrawing Party Authorisation and Notification Details	115
9.33	ECVAA-I048 (input) Physical Notification Data	115
9.34	SAA-I013: (output) Credit/Debit	115
9.35	SAA-I001 (input): Registration Data	115
9.36	SAA-I002 (input): Credit Assessment Capability	115
9.37	SAA-I003 (input) SAA Balancing Mechanism Data	115
9.38	SAA-I004: (input) Period Meter Data	116
9.39	SAA-I008: MVRN Report	116
9.40	SAA-I015	116
9.41	SAA-I016: (output, part 1) Settlement Calendar	116
9.42	SAA-I017: (output, common) SAA Data Exception Report	116
9.43	SAA-I037: (output) Withdrawing Party Settlement Details	116
9.44	SAA-I043: (output) Demand Control Instructions to CDCA	117
9.45	SAA-I044: (input) Period BM Unit Demand Disconnection Volumes	117
9.46	CRA-I036: (output) Notification Agent Termination Request	118
9.47	ECVAA-I031: (output) Notification Agent Termination Feedback	118
9.48	ECVAA-I033: (input) Credit/Debit Reports	119
9.49	CDCA-I040: (output) BM Unit 'Credit Cover' Meter Volume Data Report	119
9.50	ECVAA-I015: (input) BM Unit 'Credit Cover' Meter Volume Data	119
9.51	BMRA-I027: (input) Settlement Reports	119
9.52	SAA-I049: Trading Unit Data	119
10	Interfaces From and To Transfer Coordinator	120
10.1	CRA-I023: Issue Registration Transfer Report	120
10.2	CRA-I038: Transfer from SMRS information	120
10.3	CRA-I039: Transfer from SMRS report	120

10.4	CRA-I040: Transfer to SMRS information	121
10.5	CRA-I041: Transfer to SMRS report	121
10.6	CDCA-I055: (input)Transfer from SMRS information	121
10.7	CDCA-I056: (output)Transfer from SMRS report	122
10.8	CDCA-I057: (input) Transfer to SMRS information	122
10.9	CDCA-I058: (output) Transfer to SMRS report	122
11	Interfaces From and To EMR Settlement Services Provider	123
11.1	SAA-I042: (output) BM Unit Gross Demand Report	123

Amend section 2.1.2.2 as follows:

2.1.2.2 NGC File Format

Data received from the ~~System Operator~~Transmission Company (described in this document as flows BMRA-I002 and BMRA-I003) will be formatted according to the SO's specification for the flows, given in [NGCSPEC]. For the avoidance of doubt, this format is amplified as follows:

1. The first line of the file will contain an asterisk and the file name.
2. The second through fifth lines of the file will start with an asterisk and will be ignored.
3. The last line of the file will begin with the characters '<EOF>'.
4. Lines not beginning with an asterisk or '<EOF>' will contain data records. A data record consists of fields separated by commas as illustrated in Section 14 of [NGCSPEC].
5. A checksum is not included in these files.

The files use the ASCII character set.

In addition, receipt of these files will not be acknowledged by the BSC Central Systems in any way. Files contain sequence numbers - each file type has its own sequence, and duplicate or missing file detection is the same as described in section 2.2 of Part 1, except that instead of sending an out of sequence message, a warning is logged so that the operator can instigate manual processed to resolve the problem.

[NGCSPEC] defines one file which has a different format: the System Warning file, file name SYS_WARN_<CREATION DATE>.bmr. This is a free format text file with no special formats for the first five lines or the last line.

The other exception is the SO-SO Price interface (BMRA-I025). This data is provided as an XML file, in a format defined by the XML Schema for Merit Order List documents (published in the ENTSO-E Reserve Resource Planning EDI library).

All other interfaces with the ~~System Operator~~Transmission Company will use the common conventions specified in Section 2.2 of Part 1 of the Interface Definition and Design.

NOTE: following implementation of the new Electricity Balancing System (currently scheduled for 2013), we plan to begin migrating all interfaces with the ~~System Operator~~Transmission Company from CSV to XML. Our intention (subject to confirmation when assessing the relevant Modification Proposals or Change Proposals) is that all new or amended files provided by the ~~System Operator~~Transmission Company, whether in relation to BMRA-I002, BMRA-I003 or any other relevant interface requirement, will make use of an XML format. The details of this format will be agreed with the ~~System Operator~~Transmission Company closer to the time, and will then be defined in [NGCSPEC].

Amend section 2.1.4.1 as follows:

2.1.4.1 The Tabs of the Spreadsheet

There is one tab corresponding to the each of the sections of this document: *Multiple, SO, BSCCo Ltd, FAA, Stage 2, Internal*. The *NGC* tab shows the structure of the files sent from the ~~System Operator~~Transmission Company to BMRA and SAA (this information is mastered in [NGCSPEC]). The *Items* tab is the master definition of each item; the item definitions in the *CRA, ECVAA, CDCA* and *SAA* tabs are copied from there. Note that the *NGC* tab uses different data types: standard Oracle types are used, except for datetime which is defined as “YYYYMMDDHHMM”.

Amend section 2.1.5 as follows:

2.1.5 File names

The names of the files received from the ~~System Operator~~Transmission Company are given in [NGCSPEC]. The names of the files received from and sent to SVAA follow the following convention:

character 1: Sender role code (Pool format)

characters 2-5: Sender participant Id (Pool format)

characters 6-14: Unique identifier.

The names of all other files follow the convention given in section 2.2.5 of Part 1.

Amend section 2.1.6 as follows:

2.1.6 Unstructured File Format

With the exception of files from the ~~System Operator Transmission Company~~ and files to and from SVAA, the unstructured file format defined in section 2.2.6 of Part I is available.

Amend section 2.1.7 as follows:

2.1.7 Acknowledgement Messages and Sequence Numbers

Section 2.2.7, Acknowledgement Messages, of Part I applies to all files except those from the ~~System Operator Transmission Company~~.

With the exception of files from the ~~System Operator Transmission Company~~ and files to and from Stage 2, section 2.2.8, Use Of Sequence Numbers, of Part 1, applies. Sequence numbers within NGC files are described in 2.1.2.2, NGC File Format.

Amend section 2.1.9.4 as follows:

2.1.9.4 Charge Type

One of the values:

‘A’ (Administration Charge)

‘E’ (Energy Imbalance Cashflows)

‘I’ (Information Imbalance Charges)

‘N’ (Non-delivery Charge)

‘R’ (Residual Cashflow Reallocations)

‘B’ (BM Payments)

‘S’ (~~System Operator Transmission Company~~ Charges)

Amend section 3.2.3 as follow:

3.2.3 ~~System Operator Transmission Company~~ Interfaces

Dir'n	User	Agent-id	Name	Type
from	SO	BMRA-I002	Balancing Mechanism Data	Electronic data file transfer, NGC File Format
from	SO	BMRA-I003	System Related Data	Electronic data file transfer, NGC File Format
to	SO	BMRA-I010	Data Exception Reports	Electronic data file transfer
from	SO	BMRA-I014	Price Adjustment Data	Automatic
from	SO	BMRA-I020	BM Unit Fuel Type List	Manual
from	SO	BMRA-I021	Temperature Reference Data	Manual
from	SO	BMRA-I022	Daily Energy Volume Reference Data	Manual
from	SO	BMRA-I023	Wind Generation Registered Capacities	Manual

Dir'n	User	Agent-id	Name	Type
from	SO	BMRA-I025	SO-SO Prices	Automatic
from	SO	BMRA-I026	SO-SO Standing Data	Manual
to	SO	CDCA-I012	Report Raw Meter Data (Part 1)	Electronic Data File Transfer
to	SO	CDCA-I014	Estimated Data Report (Part 1)	Electronic data file transfer
to	SO	CDCA-I029	Aggregated GSP Group Take Volumes (Part 1)	Electronic Data File Transfer
to	SO	CDCA-I042	BM Unit Aggregation Report (Part 1)	Electronic Data File Transfer
to	SO	CDCA-I049	Total Demand Per GSP	Electronic data file transfer
to	SO	CDCA-I051	Report Meter Technical Details	Manual
from	SO	CRA-I007	Boundary Point and System Connection Point Registration Data	Manual
from	SO	CRA-I008	Interconnector Registration Details	Manual
to	SO	CRA-I013	Issue Authentication Report	Electronic data file transfer
to	SO	CRA-I014	Registration Report (Part 1)	Electronic Data File Transfer
to	SO	CRA-I020	Operations Registration Report	Electronic data file transfer
to	SO	CRA-I028	NGC Standing Data Report	Electronic data file transfer
from	SO	CRA-I034	Flexible Reporting Request	Manual
from	SO	SAA-I012	Dispute Notification (Part 1)	Manual
to	SO	SAA-I014	Settlement Report	Electronic data file transfer
to	SO	SAA-I017	SAA Data Exception Report (Part 1)	Electronic data file transfer
to	SO	SAA-I018	Dispute Report (Part 1)	Manual
from	SO	SAA-I026	Price Adjustment Data	Automatic
from	SO	SAA-I033	Receive Request for Data Change	Manual
to	SO	SAA-I036	Report Confirmation of Data Change	Manual
from	SO	BMRA-I028	Receive REMIT Data	Electronic data file transfer
from	SO	BMRA-I029	Receive Transparency Data	Electronic data file transfer

Amend section 4.5 as follows:

4.5 CRA-I028: (output) NGC Standing Data Report

Interface ID: CRA-I028	User: System Operator <u>Transmission Company</u> , BSCCo Ltd	Title: NGC Standing Data Report	BSC Reference: CR_991027_06a
Mechanism: Electronic data file transfer	Frequency: As required	Volumes: Very low volume	
<p>The CRA system, shall, on a change of details for BM Unit Names, GSP ID, Boundary Point ID, and Party ID's, issue a report on the change to the SO containing the following.</p> <p>BSC Party Details BSC Party ID BSC Party Name</p> <p>BM Unit Details BM Unit ID BM Unit Name NGC BM Unit Name</p> <p>GSP Group Details GSP Group ID GSP Group Name</p> <p>GSP Details GSP ID</p> <p>Inter-GSP-Connection Details Inter-GSP-Connection ID</p> <p>Boundary Point Details Boundary Point ID</p> <p>Metering System Details Metering System ID</p>			
Physical Interface Details:			

Amend section 5.0 as follows:

5 Interfaces From and To ~~System Operator~~the Transmission Company

5.1 BMRA-I002: (input) Balancing Mechanism Data

Interface ID: BMRA-I002	Source: System Operator <u>Transmission Company</u>	Title: Balancing Mechanism Data	BSC Reference: See verification table, P71, CP921, Variation 60, CP1223, P217, P305
Mechanism: Electronic data file	Frequency: Continuous	Volumes:	

transfer, NGC File Format	(as made available from SO)	
<p>The Balancing Mechanism data consists of the following files, as defined in the NGC tab of the IDD Part 2 Spreadsheet</p> <p>Gate Closure Data:</p> <ul style="list-style-type: none"> Physical Notification File (PN) Quiescent Physical Notification File (QPN) Bid-Offer Data File (BOD) <p>Declaration Data</p> <ul style="list-style-type: none"> Maximum Export Limit File (MELS) Maximum Import Limit File (MILS) Run Up Rate Export File (RURE) Run Up Rate Import File (RURI) Run Down Rate Export File (RDRE) Run Down Rate Input File (RDRI) Notice to Deviate From Zero File (NDZ) Notice to Deliver Offers File (NTO) Notice to Deliver Bids File (NTB) Minimum Zero Time File (MZT) Minimum Non-Zero Time File (MNZT) Stable Export Limit File (SEL) Stable Import Limit File (SIL) Maximum Delivery Volume File (MDV) Maximum Delivery Period File (MDP) <p>For Settlement Dates prior to the P217 effective date this flow shall also include:</p> <ul style="list-style-type: none"> Acceptance and Balancing Services Data <ul style="list-style-type: none"> Bid-Offer Acceptance Level File (BOAL) BM Unit Applicable Balancing Services Volume (QAS) <p>For Settlement Dates after and including the P217 effective date this flow shall also include:</p> <ul style="list-style-type: none"> Acceptance and Balancing Services Data <ul style="list-style-type: none"> Bid-Offer Acceptance Level Flagged File (BOALF) BM Unit Applicable Balancing Services Volume (QAS) <p>For Settlement Dates after and including the P305 effective date this flow shall also include:</p> <ul style="list-style-type: none"> Demand Control Instructions STOR Availability Window Loss of Load Probability and De-rated Margin Data <ul style="list-style-type: none"> Loss of Load Probability De-Rated Margin 		
<p>Physical Interface Details:</p> <p>Further clarification of the content of the input data from the SO is given below:</p> <p>FPN (& QPN) data will arrive as pairs of points, each pair will have a from & to level and a from & to time. There will ALWAYS be a pair starting at the beginning of a settlement period There will ALWAYS be a pair ending at the end of a settlement period pairs will not overlap</p> <p>If there is more than one pair for a settlement period, the end time of one pair will be the start time of another (but with possibly different levels to indicate a step function)</p> <p>Bid-Offer values will arrive as pairs of points, each pair will have a from & to level and a from & to time For day 1, the from & to level will be the same the level is relative - i.e. it is the width of the current band, so for BO set 1 the level is the increase from FPN; for set 2 the level is the increase from FPN + level 1</p>		

Bid-Offer acceptances are absolute.

The records will be ordered by BM Unit and within this by date / time. For Bid-Offer Acceptances (BOA), the SO initially intends to send each BOA in a separate file. The BOAL records within the file will be ordered according to date / time. Note that the SO reserves the right to include multiple BOAs per file; in this case, the records will be ordered by BM Unit, acceptance time and BOAL date / time.

QAS can be positive or negative and is normally only provided where there is a non-zero volume.

Maximum Import and Export Limit Files can be one of two possible formats: MIL /MEL or MILS/MELS. The MILS and MELS files contain additional information, in the form of a timestamp and a sequence number, which is used to ensure that the data stored and published to parties is correct irrespective of the order in which the data is received. Note: the MEL/MIL format files were operationally discontinued since CP921

Amend section 5.2 as follows:

5.2 BMRA-I003: (input) System Related Data

Interface ID: BMRA-I003	Source: System Operators Transmission Company	Title: System Related Data	BSC Reference: See verification table, P172, P243
Mechanism: Electronic data file transfer, NGC File Format	Frequency: Continuous (as made available from SO)	Volumes:	
<p>Logical:</p> <p>The System Related data consists of the following files, as defined in the NGC tab of the IDD Part 2 Spreadsheet:</p> <ul style="list-style-type: none"> Indicated Generation File (INDGEN) Indicated Demand File (INDDEM) National Demand Forecast File (NDF) Transmission System Demand Forecast File (TSDF) Initial Demand Out-Turn File (INDO) Initial Transmission System Demand Out-Turn File (ITSDO) National Demand Forecast Day File (NDFD) Transmission System Demand Forecast Day File (TSDFD) National Demand Forecast Week File (NDFW) Transmission System Demand Forecast Week File (TSDFW) Forecast national Surplus Data for 2-14 days File (OCNMFD)¹ Forecast national Surplus Data for 2-52 weeks File (OCNMF2)² National Generating Plant Demand Margin, 2-14 Day (OCNMFD2) National Generating Plant Demand Margin, 2-52 Week (OCNMF2) National Output Usable, 2-14 Day (NOU2T14D) National Output Usable by Fuel Type, 2-14 Day (FOU2T14D) National Output Usable by Fuel Type and BM Unit, 2-14 day (UOU2T14D) National Output Usable, 2-49 Day (NOU2T49D) National Output Usable, 2-52 Week (NOU2T52W) National Output Usable by Fuel Type, 2-52 Week (FOU2T52W) 			

¹ Where OCNMFD is referred to it should be interpreted as being equivalent to SPLD.

² Where OCNMF2 is referred to it should be interpreted as being equivalent to SPLW.

<p>National Output Usable by Fuel Type and BM Unit, 2-52 Week (UOU2T52W) National Output Usable, 1 year (NOUY1) National Output Usable, 2 year (NOUY2) National Output Usable, 3 year (NOUY3) National Output Usable, 4 year (NOUY4) National Output Usable, 5 year (NOUY5) Zonal Output Usable, 2-14 Day (ZOU2T14D) Zonal Output Usable, 2-49 Day (ZOU2T49D) Zonal Output Usable, 2-52 Week (ZOU2T52W) Zonal Output Usable, 1 year (ZOUY1) Zonal Output Usable, 2 year (ZOUY2) Zonal Output Usable, 3 year (ZOUY3) Zonal Output Usable, 4 year (ZOUY4) Zonal Output Usable, 5 year (ZOUY5) Indicated Margin File (MELNGC) Indicated Imbalance File (IMBALNGC) System Warnings (SYS_WARN) Temperature Outturn (TEMP) Wind Forecast (WINDFOR) Instantaneous Generation by Fuel Type (FUELINST) Half Hourly Generation by Fuel Type (FUELHH) Daily Energy Volume (INDOD) Non-BM STOR Instructed Volumes (NONBM) Transmission System Frequency (FREQ)</p> <p>System warnings will be received as a “text block” rather than a boolean flag.</p> <p>Note that the System Warnings functionality will be utilised, within existing constraints, to report the issuing of all Emergency Instructions, and to notify whether or not each instruction should be treated as an Excluded Emergency Acceptance.</p> <p>In addition to the files above, from time to time the System OperatorTransmission Company provides a System Zone Map (in pdf) and a spreadsheet detailing the mapping between NGC and BM Units, for download from the BMRS.</p>
<p>Physical Interface Details:</p> <p>In cases where Fuel Type data is unavailable, the affected Fuel Types are omitted from any relevant files submitted to the BMRA by the System OperatorTransmission Company.</p> <p>The System Zone Map and BM Unit mapping spreadsheets are submitted to the BMRA as email attachments sent to the BSC Service Desk.</p>

Amend section 5.13 as follows:

5.13 CDCA-I049: (output) Total Demand per GSP

Interface ID: CDCA-I049	User: System Operator Transmission Company	Title: Total Demand per GSP	BSC Reference: CDCA SD 19.5 BPM IRR CDCA8, Clarification CR_991027_06a, CP527, CP559
Mechanism: Electronic data file transfer	Frequency: Daily, per aggregation run	Volumes: Of the order of hundreds of GSPs	
Interface Requirement:			
Reports on aggregated meter flow volumes for each GSP in each GSP Group are sent to the System Operator Transmission Company , as follows for each GSP Group:			

GSP Group Id Settlement Date Settlement Run Type CDCA Run Number Date of aggregation GSP Id Settlement Period Import/Export indicator (I/E) Estimate Indicator Meter Volume Note that, where one GSP feeds multiple GSP Groups, the data for that GSP will be repeated in the section for each of those GSP Groups, and in each case the total Meter Volume for the GSP will be shown; it will not be apportioned between the GSP Groups. The Import/Export indicator indicates the direction of the energy flow: the Meter Volume is therefore unsigned.
Physical Interface Details:

Amend section 5.19 as follows:

5.19 CRA-I014: (output, part 1) Registration Report

This interface is defined in Part 1 of the Interface Definition and Design. Registration reports for Interconnector registrations will be sent to the ~~System Operators~~ Transmission Company

Amend section 5.23 as follows:

5.23 SAA-I014 (output) Settlement Report

There are three variants of the Settlement Report. The first variant is sent to BSC Parties and is defined in Part 1 of the IDD. The second variant is sent to the ~~System Operator~~ Transmission Company and the BMRA and is defined here. The third variant is sent to BSCCo Ltd and is defined in section 7 of this document.

Interface ID: SAA-I014	User: System Operator <u>Transmission Company</u> , BSCCo Ltd BMRA	Title: Settlement Report	BSC Reference: CR_991027_06a, CP527, P8, P18A, CP597, CP610, CP754, CP797, P71, P78, P194, P217, CP1397, P305
Mechanism: Electronic data file transfer	Frequency: Daily per settlement run	Volumes:	
<p>The first part of the report contains general information:</p> <p><u>Settlement Day Information</u> Settlement Date Settlement Run Type SAA Run Number SAA CDCA Settlement Run Number SVAA CDCA Settlement Date SVAA CDCA Settlement Run Number SVAA SSR Run Number BSC Party Id</p> <p style="text-align: center;"><u>Settlement Period Information (for all Settlement Dates)</u></p>			

Settlement Period (1-50) (j)
System Buy Price SBP_j £/MWh
System Sell Price SSP_j £/MWh
Total Demand (sum of all negative QM_{ij})
Total Generation (sum of all positive QM_{ij})
Information Imbalance Price 1 (£/MWh)
Information Imbalance Price 2 (£/MWh)
Arbitrage Flag
CADL_d Continuous Acceptance Duration Limit
DMAT_d De Minimis Acceptance Threshold
BPA_j (Buy Price Price Adjustment) (£/MWh)
SPA_j (Sell Price Price Adjustment) (£/MWh)
Total Period Applicable Balancing Services Volume (TQAS_j) (MWh)
Price Derivation Code (PDC_j)
Total NIV Tagged Volume (MWh)

Settlement Period Information (for Settlement Dates prior to the P217 effective date)

EBCA_j (Net Energy Buy Price Cost Adjustment) (£)
EBVA_j (Net Energy Buy Price Volume Adjustment) (MWh)
SBVA_j (Net System Buy Price Volume Adjustment) (MWh)
ESCA_j (Net Energy Sell Price Cost Adjustment) (£)
ESVA_j (Net Energy Sell Price Volume Adjustment) (MWh)
SSVA_j (Net System Sell Price Volume Adjustment) (MWh)

Settlement Period Information (for post P217 Settlement Dates):

Total System Accepted Bid Volume
Total System Accepted Offer Volume
Total System Tagged Accepted Bid Volume
Total System Tagged Accepted Offer Volume
Total System Repriced Accepted Bid Volume
Total System Repriced Accepted Offer Volume
Total System Originally-priced Accepted Bid Volume
Total System Originally-priced Accepted Offer Volume
Total System Adjustment Sell Volume
Total System Adjustment Buy Volume
Total System Tagged Adjustment Sell Volume
Total System Tagged Adjustment Buy Volume
Total System Repriced Adjustment Sell Volume
Total System Repriced Adjustment Buy Volume
Total System Originally-priced Adjustment Sell Volume
Total System Originally-priced Adjustment Buy Volume
Replacement Price
Replacement Price Calculation Volume

Settlement Period Information (for post P305 Settlement Dates, otherwise will be null for Pre P305 dates):

STOR Availability Window Flag
Loss of Load Probability
De-rated Margin
Value of Lost Load
Reserve Scarcity Price

Market Index Information:

Market Index Data Provider
Individual Liquidity Threshold
Market Index Price
Market Index Volume

Balancing Services Adjustment Action Data (post P217 only):

Balancing Services Adjustment Action Id
Balancing Services Adjustment Action Cost (£)
Balancing Services Adjustment Action Volume
Tagged Balancing Services Adjustment Action Volume
Repriced Balancing Services Adjustment Action Volume
Originally-Priced Balancing Services Adjustment Action Volume
Balancing Services Adjustment Action SO-Flag
Balancing Services Adjustment Action STOR Provider Flag (Post P305 only; will be null for Pre P305 dates)

Trading Unit Period Information:

Trading Unit Name
Total Trading Unit Metered Volume (MWh)

BM Unit Period Information:

BM Unit ID (i)
Trading Unit Name
Period FPN (FPN_{ij}) (MWh)
BM Unit Metered Volume (QM_{ij}) (MWh)
Transmission Loss Multiplier (TLM_{ij})
BM Unit Applicable Balancing Services Volume (QAS_i) (MWh)

Maximum Export Limit Information:

Time From
Level From (MW)
Time to
Level To (MW)

Maximum Import Limit Information:

Time From
Level From (MW)
Time to
Level To (MW)

The second part of the report is split into a section for each BSC Party. Each such section contains the information sent to the individual party in the "first variant" of the Settlement Report as defined in IDD Part 1:

BSC Party Settlement Date information:

Settlement Date
Settlement Run Type
SAA Run Number
SAA CDCA Settlement Run Number
SVAA CDCA Settlement Date
SVAA CDCA Settlement Run Number
SVAA SSR Run Number
BSC Party Id
Aggregate Party Day Charges (defined in IDD Part 1 section 8.4.1)

Settlement Period Information:

Settlement Period (1-50) (j)
Aggregate Party Period Charges (defined in IDD Part 1 section 8.4.2)
System Period Data (defined in IDD Part 1 section 8.4.3)

Account Period Information:

Production/Consumption Flag (a)
Account Period Data (defined in IDD Part 1 section 8.4.4)

Account Period BMU Information:

BM Unit ID (i)
Account Period BMU Data (defined in IDD Part 1 section 8.4.5)

BM Unit Period Information:

BM Unit ID
BM Unit Period Data (defined in IDD Part 1 section 8.4.6)
Trading Unit Name
Total Trading Unit Metered Volume (MWh)

BM Unit Period FPN Spot Points (FPN_{it}):

Time from
FPN Value from
Time to
FPN Value to

BM Unit Period Bid-Offer Information:

Bid-Offer pair number (n)
Bid-Offer Data (defined in IDD Part 1 section 8.4.7)

BM Unit Period Bid-Offer Spot Points (QBO_{ij}^n):
Time from
Bid-Offer Value from
Time to
Bid-Offer Value to

BM Unit Period Bid-Offer Acceptance (for all Settlement Dates):
Bid-Offer Acceptance number
CADL Flag

BM Unit Period Bid-Offer Acceptance (for post P217 Settlement Dates):
Acceptance SO-Flag

BM Unit Period Bid-Offer Acceptance (for post P305 Settlement Dates, otherwise will be null for Pre P305 dates):
Acceptance STOR Provider Flag
Reserve Scarcity Price Flag

BM Unit Period Bid-Offer Acceptance Spot Points (qA_{it}^k):
Time from
Bid-Offer Acceptance Level Value From
Time to
Bid-Offer Acceptance Level Value To

BM Unit Bid-Offer Pair Acceptance Volume Data (post P217 only):
Bid-Offer Pair Number
Bid-Offer Pair Acceptance Bid Volume
Bid-Offer Pair Acceptance Offer Volume

BM Unit MVR Information:
Subsidiary Party ID and Production/Consumption Flag (a)
MVR Data (defined in IDD Part 1 section 8.4.8)

Physical Interface Details:

This is sub-flow 2 of the Settlement Report, file id S0142.

For the Interim Initial and Final Reconciliation Settlement Runs, the full set of data is included in the file.

For all other Settlement Runs, certain information is only included if it has been changed: this applies to the

- Maximum Export Limit Information, (MEL),
- Maximum Import Limit Information (MIL),
- BM Unit Period FPN Spot Points (FP2),
- BM Unit Period Bid-Offer Spot Points (BO2), and
- BM Unit Period Bid-Offer Acceptance Spot Points (BO6).
- BM Unit Period Bid-Offer Information (BO4) which is only included where
 - a) there are changes to prices or
 - b) there are changes to underlying BM Unit Period Bid-Offer Spot Points (BO2)) or
 - c) accepted bid or offer volume has been flagged as non-zero (i.e. NZ_i^n is set) in a previous Settlement Run that occurred on or after 11/3/03 or
 - d) where accepted bid or offer volumes are non-zero.
- BM Unit Bid-Offer Pair Acceptance Volume Data (BO7)

A 'change', as referred to above, is any new data generated since the last full run. For runs SF, R1, R2, and R3, this will be changes since the II run. For the DF run, this will be changes since the RF run. For example: if for an II run of the report the version of a particular data item reported was N, and it had a value of 10, then if for a subsequent R3 run's report the latest version of same item was now higher (version M, where $M > N$), then this newer version of the data item would be reported, no matter what the value was (i.e. even if it was now 10 again)

For FP2, BO2 and BO6, it is possible that the change being reported is that the record has been deleted; this is indicated by reporting nulls, e.g.

where there had been a record

BO2|10|123456.789|20|123456.789|

deletion of this record would be shown by

BO2|10||20||

Where a Bid-Offer Acceptance has been wholly or partially deleted, the BO3 record will be present, with the CADL Flag and Acceptance SO-Flag populated as normal. BO6 records relating to the deleted acceptance (or the deleted part of the acceptance, as the case may be) will be included on the report, but with NULL values for the Bid Offer Acceptance Level Value From and Bid Offer Acceptance Level Value To.

Note:

SAA CDCA Settlement Run Number

Identifies the CDCA run which generated volumes used directly by SAA in the settlement calculations

For all settlement runs, other than Interim Initial for Settlement Dates prior to the P253 effective date:

SVAA CDCA Settlement Date

SVAA CDCA Settlement Run Number

Identify the CDCA run for Settlement Date which generated the GSP Group Take volumes which were allocated by the SVAA

SVAA SSR Run Number

Identifies the SVAA Run for Settlement Date which generated the SVA BM Unit volumes

For Interim Initial Settlement Runs for Settlement Dates prior to the P253 effective date:

SVAA CDCA Settlement Date

SVAA SSR Run Number

Identify the Settlement Date and Initial Settlement (SF) SVAA Run from which SVA volumes are derived

SVAA CDCA Run Number

Will be zero

Amend section 5.27 as follows:

5.27 SAA-I033: (input) Receive Request for Data Change

Interface ID: SAA-I033	Source: System Operator Transmission	Title: Receive Request for Data Change	BSC Reference: CP995, P172
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	<u>Company</u>		
Mechanism: Manual	Frequency: Ad-hoc	Volumes: Low	
Interface Requirement:			
<p>The System Operator<u>Transmission Company</u> shall send to the SAA and BSCCo requests for data change where it is found that the data originally submitted was incorrect or incomplete.</p> <p>Where such a request relates to Emergency Instructions, the first line of the instruction should contain the words 'EMERGENCY INSTRUCTION'. In addition, where the Emergency Instruction is to be treated as an 'Excluded Emergency Acceptance', the request will also include the words 'EXCLUDED EMERGENCY ACCEPTANCE'. Where it is not to be treated as an 'Excluded Emergency Acceptance' the words 'EMERGENCY ACCEPTANCE' will be included in the request.</p>			
Non Functional Requirement:			
Data changes are only applicable to the data types: BOAL, BOD, FPN, and QPN.			
Issues:			

Amend section 5.29 as follows:

5.29 BMRA-I025: (input) SO-SO Prices

Interface ID: BMRA-I025	Source: System Operator <u>Transmission Company</u>	Title: SO-SO Prices	BSC reference: CP1333
Mechanism: Electronic data file transfer, XML	Frequency: Continuous (as made available from SO)	Volumes: Up to 20 prices per Interconnector per hour (received as one file per Interconnector per hour) plus occasional resends and corrections of data (up to an extra 10% volume)	
<p>Logical:</p> <p>The BMRA shall receive SO-SO prices in an XML file and will include:</p> <ul style="list-style-type: none"> • The Resource Provider i.e. the <u>Transmission</u> System Operator who is offering the price. • The Acquiring Area and Connecting Area. These codes identify the TSO areas involved in a trade, and are used by the BMRA to identify the Interconnector to which the data relates. • The Resolution. This code identifies the length of the period of time to which the price relates (e.g. 60 minutes). • The Time Interval i.e. the start date and time of the period of time to which the price relates. • The Contract Identification, i.e. a code assigned by the System Operators that identifies a particular offer to increase or reduce flows on the Interconnector. • The Direction (up or down) in which the MW level would change. • The Currency (e.g. EUR or GBP). • The MW level and price. 			
Physical Interface Details:			
This file will be received in a format defined by the XML Schema for Merit Order List documents (published in the ENTSO-E Reserve Resource Planning EDI library). The data items will be as defined in the XML Schema			

Amend section 5.30 as follows:

5.30 BMRA-I026: (input) SO-SO Standing Data

Interface ID: BMRA-I026	Source: System OperatorTrans <u>mission</u> <u>Company</u>	Title: SO-SO Standing Data	BSC Reference: CP1333
Mechanism: Manual, MS Excel Spreadsheet, by email	Frequency: As necessary	Volumes: Infrequent, generally when new trading products are added	
<p>Logical:</p> <p>For reporting purposes, the BMRS associates SO-SO prices with a code (the SO-SO Trade Type) that identifies which Interconnector the price relates to, the Party offering the price, and the length of the time period to which it applies (e.g. 60 minutes).</p> <p>An appropriate SO-SO Trade Type is automatically allocated to each price received via the SO-SO Prices interface (BMRA-I025), based on the Resource Provider, Acquiring Area, Connecting Area and Resolution associated with that price.</p> <p>In order to support this process, the BMRA shall receive standing data defining the attributes associated with each SO-SO Trade Type:</p> <ul style="list-style-type: none"> • SO-SO Trade Type • Resource Provider Code • Connecting Area Code • Resolution Code • Currency • Effective From Date • Effective To Date 			
Physical Interface Details:			
The details described above shall be provided to the BMRA as an MS Excel Spreadsheet.			

Amend section 5.32 as follows:

5.32 BMRA-I029: (input) Receive Transparency Regulation Data

Interface ID: BMRA-I029	Source: System OperatorTrans <u>mission</u> <u>Company</u>	Title: Transparency Data	BSC reference: P295
Mechanism: Electronic data file transfer, XML and PDF	Frequency: Continuous (as made available from System OperatorTrans	Volumes:	

	mission Company	
<p>Logical:</p> <p>The BMRA shall receive Transparency Regulation Data in the form of XML and PDF files relating to the following categories:</p> <ul style="list-style-type: none"> • Load • Outages • Transmission • Congestion Management • Generation • Balancing <p>Each category contains a set of individual articles, each of which is represented by a particular file.</p>		
<p>Physical Interface Details:</p> <p>These files will be received in XML and PDF formats defined by ENTSO-E. Data items in XML files will be defined in the relevant XML Schemas; details area available from the Transparency section of the ENTSO-E Website (www.entsoe.eu).</p>		

Amend section 7.44 as follows:

7.44 SAA-I014 (output) Settlement Reports

There are three variants of the Settlement Report. The first variant is sent to BSC Parties and is defined in Part 1 of the IDD. The second variant is sent to the ~~System Operator~~ [Transmission Company](#) and the BMRA and is defined in section 5 of this document. The third variant is sent to BSCCo Ltd and is defined here:

Interface ID: SAA-I014	User: BSCCo Ltd	Title: Settlement Report	BSC Reference: CR_991027_06a, CP527, P8, P18A, CP597, CP610, P71, P78, P194, P217, P305
Mechanism: Electronic data file transfer	Frequency: Daily per settlement run	Volumes:	
<p>The following information is provided:</p> <p><u>Settlement Day Information</u> Settlement Date Settlement Run Type SAA Run Number SAA CDCA Settlement Run Number SVAA CDCA Settlement Date SVAA CDCA Settlement Run Number SVAA SSR Run Number BSC Party Id</p> <p>For each BSC Party:</p> <p><u>BSC Party Information</u> BSC Party Id Aggregate Party Day Charges (defined in IDD Part 1 section 8.4.1)</p>			

For each Settlement Period:

Settlement Period Information

Settlement Period (1-50) (j)
Total Demand (sum of all negative QM_{ij})
Notional Reserve Limit (MW) (only for Settlement Dates prior to the P78 effective date)
Arbitrage Flag
CADL_d Continuous Acceptance Duration Limit
DMAT_d De Minimis Acceptance Threshold
System Period Data (defined in IDD Part 1 section 8.4.3)

Trading Unit Period Information:

Trading Unit Name
Total Trading Unit Metered Volume (MWh)

BM Unit Period Information:

BM Unit ID (i)
Trading Unit Name
Period FPN (FPN_{ij}) (MWh)
BM Unit Metered Volume (QM_{ij}) (MWh)
Transmission Loss Multiplier (TLM_{ij})
BM Unit Applicable Balancing Services Volume (QAS_i) (MWh)

BM Unit Period Bid-Offer Information:

Bid-Offer Pair Number (n)
Bid Price (PBⁿ_{ij}) (£)
Offer Price (POⁿ_{ij}) (£)

BM Unit Period Bid-Offer Spot Points (QBOⁿ_{ij}):

Time from
Bid-Offer Value from
Time to
Bid-Offer Value to

Maximum Export Limit Information:

Time From
Level From (MW)
Time to
Level To (MW)

Maximum Import Limit Information:

Time From
Level From (MW)
Time to
Level To (MW)

Physical Interface Details:

This is sub-flow 3 of the Settlement Report, file id S0143.

For the Interim Initial Settlement Run, the full set of data is included in the file.

For subsequent Settlement Runs, certain information is only included if it has been changed: this applies to the Maximum Export Limit Information, (MEL), Minimum Export Limit Information (MIL), and BM Unit Period Bid-Offer Spot Points (BO2). BM Unit Period Bid-Offer Information (BBO) is only included where there are changes (to prices or to underlying BM Unit Period Bid-Offer Spot Points (BO2)).

For BO2 it is possible that the change being reported is that the record has been deleted; this is indicated by reporting nulls, e.g.

where there had been a record

BO2|10|123456.789|20|123456.789|

deletion of this record would be shown by

BO2|10||20||

Note:

SAA CDCA Settlement Run Number

Identifies the CDCA run which generated volumes used directly by SAA in the settlement calculations

For all settlement runs, other than Interim Initial for Settlement Dates prior to the P253 effective date:

SVAA CDCA Settlement Date

SVAA CDCA Settlement Run Number

Identify the CDCA run for Settlement Date which generated the GSP Group Take volumes which were allocated by the SVAA

SVAA SSR Run Number

Identifies the SVAA Run for Settlement Date which generated the SVA BM Unit volumes

For Interim Initial Settlement Runs for Settlement Dates prior to the P253 effective date:

SVAA CDCA Settlement Date

SVAA SSR Run Number

Identify the Settlement Date and Initial Settlement (SF) SVAA Run from which SVA volumes are derived

SVAA CDCA Run Number

Will be zero

Amend section 7.56 as follows:

7.56 SAA-I034: (output) Report Recommended Data Change

Interface ID: SAA-I034	User: BSCCo	Title: Report Recommended Data Change	BSC Reference: CP995, CP1283
Mechanism: Manual	Frequency: In response to SAA-I033 for an Emergency	Volumes: Low	

Interface ID:	User:	Title:	BSC Reference:
SAA-I034	BSCCo	Report Recommended Data Change	CP995, CP1283
	Instruction		
Interface Requirement:			
The SAA will report to the BSCCo and recommend a course of action with regards to a request for data change received from the System Operator <u>Transmission Company</u> (via SAA-I033) where the request is marked as an Emergency Instruction.			
Non Functional Requirement:			
Issues:			

Amend section 7.58 as follows:

7.58 SAA-I036: (output) Report Confirmation of Data Change

Interface ID:	User:	Title:	BSC Reference:
SAA-I036	BSCCo, System Operator <u>Transmission Company</u>	Report Confirmation of Data Change	CP995, CP1283
Mechanism:	Frequency:	Volumes:	
Manual	In response to SAA-I035 for an Emergency Instruction or In response to SAA-I033 for a non-Emergency Instruction	Low	
Interface Requirement:			
The SAA shall report to BSCCo and the System Operator <u>Transmission Company</u> confirmation of the completion of an instructed data change (received via SAA-I035) for an Emergency Instruction or via SAA-I033 for a non-Emergency Instruction).			
Non Functional Requirement:			
Issues:			

Amend section 8.7 as follows:

8.7 BMRA-I032: (output) Demand Control Instructions to SVAA

Interface ID: BMRA-I032	User: SVAA	Title: Demand Control Instructions to SVAA	BSC Reference: P305
Mechanism: Electronic data file transfer, Pool Transfer File Format	Frequency: As made available by the SO	Volumes: Low	
Interface Requirement:			
<p>The BMRA provides details of Demand Control Instructions to the SVAA as and when they are made available by the System Operator<u>Transmission Company</u> via BMRA-I002</p> <p>The Demand Control Instruction data shall include:</p> <ul style="list-style-type: none"> Demand Control Event ID Instruction Sequence Number Demand Control Event flag Start Date and Time End Date and Time Volume SO Flag Amendment Flag 			
Physical Interface Details: See the physical flow for details, in the Stage 2 tab of the IDD Part 2 spreadsheet.			

Amend section 9.44 as follows:

9.44 SAA-I043: (output) Demand Control Instructions to CDCA

Interface ID: SAA-I043	User: CDCA	Title: Demand Control Instructions to CDCA	BSC Reference: P305
Mechanism: Via shared database with CDCA	Frequency: As required	Volumes: Low	
Interface Requirement:			
<p>The SAA provides details of Demand Control Instructions to the CDCA as and when they are received from the System Operator<u>Transmission Company</u> via SAA-I003.</p> <p>The Demand Control Instruction data shall include:</p> <ul style="list-style-type: none"> Demand Control Event ID Start Date and Time End Date and Time 			
Physical Interface Details:			

Amend section 9.51 as follows:

9.51 BMRA-I027: (input) Settlement Reports

This interface is defined in Section 5 and has the same format as the SAA-I014 Sub Flow 2 sent to the ~~System Operator~~Transmission Company.