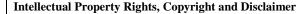# NETA Interface Definition and Design: Part 2

Interfaces to other Service Providers

Synopsis	This document contains the definition and design of all interfaces between the BSC Service Systems and other Systems. It includes the specification of file formats and structure of electronic files. Part two only contains details for interfaces which involve BSC Agents and other service providers.
Version	~~38.0~~
Effective date	~~1 November 2018~~
Prepared by	Design Authority

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Table Of Contents

1　Introduction

1.1　Purpose

1.1.1　Summary

This document is Part 2 of the Interface Definition and Design

The scope of the document is, for each BSC Service System provided, the definition and design of all interfaces between the BSC Service System and other Systems.

The scope of Part 2 is limited to the definition and design of all interfaces with the BSC Service System which do not involve BSC Parties and their Agents.

Note that, subsequent to the introduction of P62, any of the following terms can represent a Licensed Distribution System Operator (LDSO) or any Party which distributes electricity.

- Distribution Business

- Distribution System Operator

- Public Distribution System Operator (and abbreviation PDSO)

- Distribution Company

- Public Electricity Suppliers (PES), as operators of a distribution network

- Distributor, as operator of a distribution network.

1.2　Scope

1.2.1　The Scope of this Document

The scope of the BSC Service systems are defined in Part 1 of the Interface Definition and Design.

Interfaces between BSC Service Systems services are termed here **Internal**. They are referenced in the URS documentation as being of equal status to external interfaces but are only indicated in the Interface Definition and Design, as the precise nature of the interface is an implementation decision.

1.3　Summary

Part 2 of the Interface Definition and Design covers interfaces with other BSC Systems, and is organised as follows:

- Section 2 describes common interface conventions, in particular defining the approach to interfacing via file transfer.

- Section 2.1 gives a summary of the interfaces, organised by BSC agent and by corresponding party.

- Sections 4 to 8 and 10 to 11 define the interfaces to each of the corresponding parties.

- Section 9 defines interfaces between the BSC agents.

1.4 Amendment History

Date	Version	Details of Change	Committee Approval Ref
04/11/2010	26.0	Document rebadged and amended for November 2010 Release (P243, P244, CP1333)	
03/11/2011	27.0	November 2011 Release (CP1345, P253)	
28/06/2012	28.0	June 2012 Release (CP1364)	
26/06/2014	29.0	26 June 2014 Release (CP1397)	ISG150/02
01/08/2014	30.0	ORD005 – Electricity Market Reform Directed by the Secretary of State	Directed by the Secretary of State
06/11/2014	31.0	6 November 2014 Release (CP1412)	ISG159/01
16/12/2014	32.0	16 December 2014 Release (P291, P295)	ISG162/01
25/06/2015	33.0	June 2015 Release (CP1435)	ISG168/02
		June 2015 Release (P310 Self-Governance)	ISG169/05
05/11/2015	34.0	November 2015 Release (P323)	P245/06
		November 2015 Release (P305)	ISG172/04
23/02/17	35.0	February 2016 Release (P326 Self-Governance Alternative)	ISG188/05
29/06/17	36.0	29 June 17 Release (P321 Self-Governance, P350)	ISG194/02
02/11/2017	37.0	P342 Alternative. 2 November 2017 Release	ISG198/04
01/11/2018	38.0	CP1503; 1 November 2018 Release	P277/04
29/03/2019	38.2	29 March 2019 Standalone Release – P369	TBC

1.5 References

[SD]	Draft Service Descriptions for Central Data Collection, Energy Contract Volume Aggregation, Central Registration, Balancing Mechanism Reporting, Settlement Administration,
[BPM]	RETA Business Process Models:
	Top Level Processes
	Central Registration
	Aggregate and Check Contract Volume
	Balancing Mechanism Reporting
	Central Data Collection and Aggregation
	Calculate Settlement Debits and Credits
	Indicative Reporting Requirement
	Entity Relationship Model
[COMMS]	Communications Requirements Document
[NGCSPEC]	NGC Control Technology Specification: NETA BMRA & SAA Interface

	Specification

1.6   Abbreviations

A list of abbreviations is given in Part 1 of this document.

DRAFT

2   Common Interface Conventions

2.1   Interface Mechanisms

This section outlines the different interface mechanisms used.

2.1.1   Manual

Some interfaces employ a manual mechanism. This means that the information is delivered by mail, by a telephone call, by email, or by fax from one person to another. (Perhaps in an electronic file attached to an email or written to a floppy disc)

All incoming manual flows are required to have been initiated by an Authorised Signatory. The flow will contain the Authorised Signatory Name and Password plus:

- for flows submitted by post or fax, the signatory's signature is required;

- for those flows which are submitted by email, the sending email address must be that registered for the signatory.

Where applicable, the sender will have read the information from a computer screen or printed it out before sending it. Similarly, where applicable, the recipient enters the information into a computer system, probably via a data entry screen-based interface.

More details of the manual mechanism are given where appropriate for a particular flow.

2.1.2   Electronic Data File Transfer

The majority of non-manual interfaces use electronic file transfer. A data file is created on the source system, and is then copied to a predetermined directory on the destination system. The mechanism for the network copy is described in [COMMS].

2.1.2.1   Common File Format

A common format will be used as far as is possible for data files transferred to and from BSC Central Services. This is specified in Section 2.2 of Part 1 of the Interface Definition and Design.

2.1.2.2   NGC File Format

[P369]Data received from the ~~System Operator~~National Electricity Transmission System Operator (NETSO) (described in this document as flows BMRA-I002 and BMRA-I003) will be formatted according to the ~~SO~~NETSO'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 Operators will use the common conventions specified in Section 2.2 of Part 1 of the Interface Definition and Design.

[P369]NOTE: following implementation of the new Electricity Balancing System (currently scheduled for 2013), we plan to begin migrating all interfaces with the ~~System Operator~~NETSO 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~~NETSO, 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~~NETSO closer to the time, and will then be defined in [NGCSPEC].

2.1.2.3   Pool Transfer File Format

The interfaces with Stage 2 (described in section 8 of this document as flows CDCA-I043, SAA-I007 and CRA-I015) will use Pool Transfer File Format (PTFF) as defined in the SVA Data Catalogue.

The files use the ASCII character set.

The PTFF header and footer records are described in the SVA Data Catalogue. The specific information needed to populate the header record for each flow is given in section 8.

Response messages are sent in response to these flows. These response messages are P0183001 PTFF files as specified in the SVA Data Catalogue.

2.1.2.4 Interfaces to EMR

The BM Unit Gross Demand Report (SAA-I042) is sent to a CFD Settlement Services Provider in XML format, as described in section 11.

2.1.3 Internal Interfaces

Interfaces between BSC Agent services are only indicated in the Interface Definition and Design, as the precise nature of the interface is an implementation decision. As part of the current architecture these internal interfaces are of two kinds:

- via shared database – between CRA, SAA and CDCA

- electronic data file transfer – between these and ECVAA and BMRA.

2.1.4 Repeating Structure

The structure of records and their nesting rules are specified using tables. The tables are defined in a spreadsheet attached to the end of the document. The meaning of data in those tables is explained in section 2.2.4 of Part I.

2.1.4.1 The Tabs of the Spreadsheet

[P369]There is one tab corresponding to the each of the sections of this document: *Multiple, SONETSO, BSCCo Ltd, FAA, Stage 2, Internal.* The *NG*C tab shows the structure of the files sent from the System OperatorNETSO 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".

2.1.5 File names

[P369]The names of the files received from the System OperatorNETSO 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.

2.1.6 Unstructured File Format

[P369]With the exception of files from the ~~System Operator~~NETSO and files to and from SVAA, the unstructured file format defined in section 2.2.6 of Part I is available.

2.1.7 Acknowledgement Messages and Sequence Numbers

[P369]Section 2.2.7, Acknowledgement Messages, of Part I applies to all files except those from the ~~System Operator~~NETSO.

With the exception of files from the ~~System Operator~~NETSO 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.

2.1.8 Time

All times contained in files will be in GMT; however note that the Settlement Calendar uses local time, and hence Settlement Periods are numbered starting at midnight local time.

2.1.9 Valid Sets

This section defines the domains referred to in the repeating structure tables.

2.1.9.1 Activity

See Part 1, section 2.2.11.1

2.1.9.2 BMRA Exception Type

One of the values:

'B' (Balancing Mechanism Data Incomplete)

'T' (Termination or general input file validation error)

2.1.9.3 BM Unit Type

See Part 1, section 2.2.11.2

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 Charges)

2.1.9.5   Organisation Type

See Part 1, section 2.2.11.9

2.1.9.6   Run Type

See Part 1, section 2.2.11.13

3 External Interface Summary

This section provides convenient summary lists of the interfaces by system / party. Note that this section defines the default rules for distribution of reports: copies of other reports may be requested through BSCCo Ltd. using the Flexible Reporting procedure.

3.1 Interfaces by BSC Agent

The interfaces to each Agent are listed in the following tables. Interfaces which are defined in Part 1 are not included in these tables.

3.1.1 BMRA Interfaces

[P369]

Agent-id	Name	Dir'n	User	Type
BMRA-I002	Balancing Mechanism Data	from	~~SO~~NETSO	Electronic data file transfer, NGC File Format
BMRA-I003	System Related Data	from	~~SO~~NETSO	Electronic data file transfer, NGC File Format
BMRA-I007	SAA/ECVAA Balancing Mechanism Data	to	SAA (I003) ECVAA (I048)	Electronic data file transfer
BMRA-I011	Performance Reports	to	BSCCo Ltd	Manual
BMRA-I012	System Parameters	from	BSCCo Ltd	Manual
BMRA-I013	BMRA BSC Section D Charging Data	to	BSCCo Ltd	Manual
BMRA-I014	Price Adjustment Data	from	~~SO~~NETSO	Automatic
BMRA-I016	Receive Market Index Data Provider Thresholds	from	BSCCo Ltd	Manual
BMRA-I017	Report Market Index Data Provider Thresholds	To	BSCCo Ltd	Manual
BMRA-I018	Publish Credit Default Notices	from	ECVAA (I036)	Electronic data file transfer
BMRA-I020	BM Unit Fuel Type List	from	~~SO~~NETSO	Manual
BMRA-I021	Temperature Reference Data	from	~~SO~~NETSO	Manual
BMRA-I022	Daily Energy Volume Reference Data	from	~~SO~~NETSO	Manual
BMRA-I023	Wind Generation Registered Capacities	from	~~SO~~NETSO	Manual
BMRA-I024[1]	Large Combustion Plant Directive Spreadsheet	from	BSCCo Ltd	Manual
BMRA-I025	SO-SO Prices	from	~~SO~~NETSO	Automatic
BMRA-i026	SO-SO Standing Data	from	~~SO~~NETSO	Manual
BMRA-I027	Settlement Report	from	SAA (I014)	Electronic data file transfer
BMRA-I028	Receive REMIT Data	From	~~SO~~NETSO	Electronic data file transfer
BMRA-I029	Receive Transparency Data	From	~~SO~~NETSO	Electronic data file transfer
BMRA-I032	Demand Control Instructions to SVAA	To	SVAA	Electronic data file transfer
BMRA-I033	STOR Availability Window	From	BSCCo	Manual
BMRA-I034	Trading Unit Data	From	SAA (I049)	Electronic data file transfer

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3.1.2   CDCA Interfaces

[P369]

Agent-id	Name	Dir'n	User	Type
CDCA-I016	Metering System Details Request	from	TAA	Manual
CDCA-I020	Site Visit Inspection Report	from	CDCA Site Visit Agent	Manual
CDCA-I022	Distribution Line Loss Factors	From	BSCCo Ltd	Electronic data file transfer
CDCA-I023	Missing Line Loss Factors	To	BSCCo Ltd	Manual
CDCA-I027	Aggregated Interconnector Meter Flow Volumes	to	SAA (I004)	via shared database
CDCA-I028	Aggregated BM Unit Metered Volumes	to	SAA (I004)	via shared database
CDCA-I032	Data Collection and Aggregation Performance Report	to	BSCCo Ltd	Manual
CDCA-I035	Site Visit Report on Aggregation Rule compliance	from	CDCA Site Visit Agent	Manual
CDCA-I036	GSP Group Take to SAA	to	SAA (I004)	via shared database
CDCA-I039	Exchange of information with TAA	to	TAA	Manual
CDCA-I040[2]	BM Unit 'Credit Cover' Meter Volume Data Report	To	ECVAA (I015)	Electronic data file transfer
CDCA-I043	GSP Group Take to SVAA	to	SVAA	Electronic data file transfer, Pool Transfer File Format
CDCA-I049	Total Demand per GSP	to	~~SO~~NETSO	Electronic data file transfer
CDCA-I051	Report Meter Technical Details	to	~~SO~~NETSO	Manual
CDCA-I055	Transfer from SMRS information	from	Transfer Coordinator	Manual
CDCA-I056	Transfer from SMRS report	to	Transfer Coordinator	Manual
CDCA-I057	Transfer to SMRS information	from	Transfer Coordinator	Manual
CDCA-I058	Transfer to SMRS report	to	Transfer Coordinator	Manual
CDCA-I061	Receive System Parameters	From	BSCCo Ltd	Manual
CDCA-I062	Receive Sample Settlement Periods	from	BSCCo Ltd	Manual
CDCA-I063	Metered Volume Data for Sample Settlement Periods	to	BSCCo Ltd	Manual
CDCA-I064	MOA Proving Tests Report	To	BSCCo Ltd	Manual
CDCA-I065	MOA Fault Resolution Report	To	BSCCo Ltd	Manual
CDCA-I066	Demand Control Instructions to CDCA	From	SAA	Via shared database
CDCA-I067	Disconnected CVA BM Units	From	~~SO~~NETSO , Distribution Business	Manual
CDCA-I068	Aggregated BM Unit Disconnection Volumes	To	SAA	Via shared database

3.1.3   CRA Interfaces

[P369]

Agent-id	Name	Dir'n	User	Type
CRA-I001	BSC Party Registration Data	From	BSCCo Ltd	Manual
CRA-I004	BSC Service Agent Details	from	BSCCo Ltd	Manual
CRA-I004	BSC Service Agent Details	from	BSC Service Agents	Manual
CRA-I004	BSC Service Agent Details	from	FAA	Manual
CRA-I004	BSC Service Agent Details	from	SVAA	Manual
CRA-I007	Boundary Point and System Connection Point Registration Data	from	~~SO~~NETSO	Manual
CRA-I007	Boundary Point and System Connection Point Registration Data	To	BSCCo Ltd	Manual
CRA-I011	CALF	from	BSCCo Ltd	Manual
CRA-I013	Issue Authentication Report	to	BMRA (I001)	Electronic data file transfer
CRA-I013	Issue Authentication Report	to	ECVAA (I001)	Electronic data file transfer
CRA-I013	Issue Authentication Report	to	SAA (I001)	Via shared database

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Agent-id	Name	Dir'n	User	Type
CRA-I013	Issue Authentication Report	to	FAA	Electronic data file transfer
CRA-I013	Issue Authentication Report	to	~~SO~~NETSO	Electronic data file transfer
CRA-I013	Issue Authentication Report	to	BSCCo Ltd	Electronic data file transfer
CRA-I014	Registration Report	to	BSCCo Ltd	Manual
CRA-I015	BM Unit and Energy Account Registration Data	to	BMRA (I001)	Electronic data file transfer
CRA-I015	BM Unit and Energy Account Registration Data	to	ECVAA (I001)	Electronic data file transfer
CRA-I015	BM Unit and Energy Account Registration Data	to	SAA (I001)	Via shared database
CRA-I015	BM Unit and Energy Account Registration Data	to	SVAA	Electronic data file transfer
CRA-I015	BM Unit and Energy Account Registration Data	to	FAA	Electronic data file transfer
CRA-I017	Credit Assessment Export Capability	to	ECVAA (I001)	Electronic data file transfer
CRA-I017	Credit Assessment Export Capability	to	SAA (I002)	Via shared database
CRA-I019	Registration Data	to	CDCA (I002)	Via shared database
CRA-I020	Operations Registration Report	to	BSCCo Ltd	Electronic data file transfer
CRA-I020	Operations Registration Report	to	~~SO~~NETSO	Electronic data file transfer
CRA-I022	Metering System Details	to	TAA (I015)	Manual
CRA-I023	Issue Registration Transfer Report	to	Transfer Coordinator	Manual
CRA-I028	NGC Standing Data Report	to	BSCCo Ltd	Electronic data file transfer
CRA-I028	NGC Standing Data Report	to	~~SO~~NETSO	Electronic data file transfer
CRA-I029	Transmission Loss Factors	from	BSCCo Ltd	Manual
CRA-I032	CRA Performance Reports	to	BSCCo Ltd	Manual
CRA-I034	Flexible Reporting Request	from	BSCCo Ltd	Manual
CRA-I034	Flexible Reporting Request	from	BSC Service Agent	Manual
CRA-I034	Flexible Reporting Request	from	~~SO~~NETSO	Manual
CRA-I035	CRA BSC Section D Charging Data	to	BSCCo Ltd	Electronic data file transfer
CRA-I036	Notification Agent Termination Request	To	ECVAA (I030)	Manual
CRA-I037	Notification Agent Termination Feedback	From	ECVAA (I031)	Manual
CRA-I038	Transfer from SMRS information	from	Transfer Coordinator	Manual
CRA-I039	Transfer from SMRS report	to	Transfer Coordinator	Manual
CRA-I040	Transfer to SMRS information	from	Transfer Coordinator	Manual
CRA-I041	Transfer to SMRS report	to	Transfer Coordinator	Manual
CRA-I042	Receive Market Index Data Provider Registration Data	From	BSCCo Ltd	Manual
CRA-I043	Receive Exempt Export Registration Data	From	BSCCo Ltd	Manual
CRA-I044	Withdrawals Checklist Request	from	BSCCo Ltd	Manual
CRA-I045	Withdrawing Party Authorisation and Notification Details	from	ECVAA (I047)	Manual
CRA-I046	Withdrawing Party Settlement Details	from	SAA (I037)	Via shared database
CRA-I047	Withdrawals Checklist	to	BSCCo Ltd	Manual

3.1.4   ECVAA Interfaces

Agent-id	Name	Dir'n	User	Type
ECVAA-I006	Credit Limit Data	from	FAA	Electronic data file transfer
ECVAA-I011	Account bilateral Contract Volume Report	to	SAA (I008)	Electronic data file transfer
ECVAA-I012	MVR Notification Report	to	SAA (I008)	Electronic data file transfer
ECVAA-I015[3]	Receive BM Unit Credit Cover Meter Volume Data	From	CDCA (I040)	Electronic data file transfer
ECVAA-I016	ECVAA Data Exception Report	to	CRA (I030)	Electronic data file transfer
ECVAA-I016	ECVAA Data Exception Report	to	FAA	Electronic data file transfer
ECVAA-I017	ECVAA Performance Report	to	BSCCo Ltd	Manual
ECVAA-I021	Credit Limit Warning	to	BSCCo Ltd	Manual
ECVAA-I023	ECVAA BSC Section D Charging Data	to	BSCCo Ltd	Electronic data file transfer
ECVAA-I025	Credit Cover Minimum Eligible Amount Report	to	BSCCo Ltd	Manual
ECVAA-I025	Credit Cover Minimum Eligible Amount Report	to	FAA	Manual
ECVAA-I026	Minimum Eligible Amount Request	to	BSCCo Ltd	Manual
ECVAA-I027	Notification of BSC Parties in Section H Default	from	BSCCo Ltd	Manual
ECVAA-I030	Notification Agent Termination Request	from	CRA (I036)	Manual
ECVAA-I031	Notification Agent Termination Feedback	To	CRA (I037)	Manual
ECVAA-I032	Credit Assessment Price	from	BSCCo Ltd	Manual
ECVAA-I033	Credit/Debit Reports	from	SAA (I013)	Electronic data file transfer
ECVAA-I036	Publish Credit Default Notices	to	BMRA (I018)	Electronic data file transfer
ECVAA-I040	Issue Notification System Status Report	to	BSCCo Ltd	Manual
ECVAA-I041	Party Credit Default Authorisation Details	from	BSCCo Ltd	Manual
ECVAA-I047	Withdrawing Party Authorisation and Notification Details	to	CRA (I045)	Manual
ECVAA-I048	Physical Notification Data	from	BMRA (I007)	Electronic data file transfer
ECVAA-I049	Request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default	from	BSCCo Ltd	Manual
ECVAA-I050	Remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default Feedback	to	BSCCo Ltd	Manual

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3.1.5 SAA Interfaces

[P369]

Agent-id	Name	Dir'n	User	Type
SAA-I003	Balancing Mechanism Data	from	BMRA	Electronic data file transfer
SAA-I007	BM Unit Allocated Demand Volume	from	SVAA	Electronic data file transfer, Pool Transfer File Format
SAA-I010	BSCCo Ltd Costs (Redundant)	from	BSCCo Ltd	Electronic data file transfer
SAA-I011	Payment Calendar Data	from	FAA	Manual
SAA-I013	Credit/Debit Reports	to	FAA	Electronic data file transfer
SAA-I013	Credit/Debit Reports	to	ECVAA (I033)	Electronic data file transfer
SAA-I014	Settlement Report	to	~~SO~~NETSO	Electronic data file transfer
SAA-I014	Settlement Report	to	BSCCo Ltd	Electronic data file transfer
SAA-I014	Settlement Report	to	BMRA (I027)	Electronic data file transfer
SAA-I014	Settlement Report	to	EMR Settlement Services Provider	Electronic data file transfer
SAA-I016	Settlement Calendar	to	CDCA (I016)	Via shared database
SAA-I019	BSC Party Performance Reports (Redundant)	to	BSCCo Ltd	Electronic data file transfer
SAA-I020	SAA Performance Reports	to	BSCCo Ltd	Manual
SAA-I023	System Parameters	from	BSCCo Ltd	Manual
SAA-I025	SAA BSC Section D Charging Data	to	BSCCo Ltd	Electronic data file transfer
SAA-I026	Price Adjustment Data	from	~~SO~~NETSO	Automatic
SAA-I027	Report pre-settlement run validation failure	to	BSCCo Ltd	Manual
SAA-I028	Receive settlement run decision	from	BSCCo Ltd	Manual
SAA-I029	Receive settlement run instructions	from	BSCCo Ltd	Manual
SAA-I031	Receive Market Index Data Provider Thresholds	From	BSCCo Ltd	Manual
SAA-I032	Report Market Index Data Provider Thresholds	to	BSCCo Ltd	Manual
SAA-I033	Receive Request for Data Change	from	~~SO~~NETSO	Manual
SAA-I034	Report Recommended Data Change	to	BSCCo Ltd	Manual
SAA-I035	Receive Instruction for Data Change	from	BSCCo Ltd	Manual
SAA-I036	Report Confirmation of Data Change	to	BSCCo Ltd	Manual
SAA-I037	Withdrawing Party Settlement Details	to	CRA (I046)	Manual
SAA-I038	Excluded Emergency Acceptance Pricing Information	from	BSCCo Ltd	Manual
SAA-I039	Send Excluded Emergency Acceptance Dry Run Results	to	BSCCo Ltd	Manual
SAA-I040	Receive Authorisation To Proceed With Full Settlement Run	from	BSCCo Ltd	Manual
SAA-I041	BM Unit SVA Gross Demand Data File	from	SVAA	Electronic data file transfer, Pool Transfer File Format
SAA-I042	BM Unit Gross Demand Report	to	CFD Settlement Services Provider	Electronic data file transfer, XML
SAA-I043	Demand Control Instructions to CDCA	to	CDCA	Via shared database
SAA-I044	Period BM Unit Demand Disconnection Volumes	from	CDCA	Via shared database
SAA-I045	BM Unit Allocated Disconnection Demand Volume	from	SVAA	Electronic data file transfer, Pool Transfer File Format

Agent-id	Name	Dir'n	User	Type
SAA-I046	STOR Availability Window	From	BSCCo	Manual
SAA-I047	BSCCo Calculated SBR Imbalance Price	From	BSCCo	Manual
SAA-I048	SBR Imbalance Price Discrepancy Notice	To	BSCCo	Manual
SAA-I049	Trading Unit Data	To	BMRA (I034)	Electronic data file transfer

3.2   Interfaces by Corresponding Party

The interfaces to each corresponding party are listed in the following tables. Interfaces which are defined in Part 1 **are** included in these tables, in italic font.

3.2.1   [P369]BSCCo Ltd Interfaces

[P369]

Dir'n	User	Agent-id	Name	Type
To	~~SO~~NETSO	BMRA-I010	Data Exception Reports	Electronic data file transfer
To	BSCCo Ltd	BMRA-I011	Performance Reports	Manual
from	BSCCo Ltd	BMRA-I012	System Parameters	Manual
To	BSCCo Ltd	BMRA-I013	BMRA BSC Section D Charging Data	Manual
to	BSCCo Ltd	CDCA-I014	Estimated Data Report (Part 1)	Electronic data file transfer
from	BSCCo Ltd	BMRA-I016	Receive Market Index Data Provider Thresholds	Manual
To	BSCCo Ltd	BMRA-I017	Report Market Index Data Provider Thresholds	Manual
from	BSCCo Ltd	BMRA-I024	Large Combustion Plant Directive Spreadsheet[4]	Manual
to	BSCCo Ltd	CDCA-I018	MAR Reconciliation Report (Part 1)	Manual
to	BSCCo Ltd	CDCA-I019	MAR Remedial Action Report (Part 1)	Manual
from	BSCCo Ltd	CDCA-I022	Distribution Line Loss Factors	Electronic data file transfer
To	BSCCo Ltd	CDCA-I023	Missing Line Loss Factors	Manual
To	BSCCo Ltd	CDCA-I032	Data Collection and Aggregation Performance Report	Manual
from	BSCCo Ltd	CDCA-I043	Receive Exempt Export Registration Data	Manual
To	BSCCo Ltd	CDCA-I047	Correspondence Receipt Acknowledgement (Part 1)	Manual
from	BSCCo Ltd	CDCA-I061	Receive System Parameters	Manual
From	BSCCo Ltd	CDCA-I062	Receive Sample Settlement Periods[5]	Manual
To	BSCCo Ltd	CDCA-I063	Metered Volume Data for Sample Settlement Periods	Manual
from	BSCCo Ltd	CRA-I001	BSC Party Registration Data (Part 1)	Manual
to	BSCCo Ltd	CDCA-I064	MOA Proving Tests Report	Manual
to	BSCCo Ltd	CDCA-I065	MOA Fault Resolution Report	Manual
to	BSCCo Ltd	CRA-I001	BSC Party Registration Data (Part 1)	Manual
from	BSCCo Ltd	CRA-I003	BSC Party Agent Registration Data (Part 1)	Manual
from	BSCCo Ltd	CRA-I004	BSC Service Agent Details	Manual
To	BSCCo Ltd	CRA-I007	Boundary Point and System Connection Point Registration Data (Part 1)	Manual
from	BSCCo Ltd	CRA-I011	CALF	Manual

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[5] This flow was added for the Introduction of Zonal Transmission Losses on an Average Basis (P82), but will not be used.

Dir'n	User	Agent-id	Name	Type
to	BSCCo Ltd	CRA-I013	Issue Authentication Report	Electronic data file transfer
to	BSCCo Ltd	CRA-I014	Registration Report	Manual
to	BSCCo Ltd	CRA-I020	Operations Registration Report	Electronic data file transfer
to	BSCCo Ltd	CRA-I028	NGC Standing Data Report	Electronic data file transfer
from	BSCCo Ltd	CRA-I029	Transmission Loss Factors	Manual
to	BSCCo Ltd	CRA-I032	CRA Performance Reports	Manual
from	BSCCo Ltd	CRA-I034	Flexible Reporting Request	Manual
to	BSCCo Ltd	CRA-I035	CRA BSC Section D Charging Data	Electronic data file transfer
from	BSCCo Ltd	CRA-I042	Market Index Data Provider Registration Data	Manual
from	BSCCo Ltd	CRA-I044	Withdrawals Checklist Request	Manual
to	BSCCo Ltd	CRA-I047	Withdrawals Checklist	Manual
to	BSCCo Ltd	ECVAA-I017	ECVAA Performance Report	Manual
to	BSCCo Ltd	ECVAA-I021	Credit Limit Warning	Manual
to	BSCCo Ltd	ECVAA-I023	ECVAA BSC Section D Charging Data	Electronic data file transfer
to	BSCCo Ltd	ECVAA-I025	Credit Cover Minimum Eligible Amount Report	Manual
to	BSCCo Ltd	ECVAA-I026	Minimum Eligible Amount Request	Manual
from	BSCCo Ltd	ECVAA-I027	Notification of BSC Parties in Section H Default	Manual
from	BSCCo Ltd	ECVAA-I032	Credit Assessment Price	Manual
to	BSCCo Ltd	ECVAA-I040	Issue Notification System Status Report	Manual
from	BSCCo Ltd	ECVAA-I041	Party Credit Default Authorisation Details	Manual
from	BSCCo Ltd	ECVAA-I049	Request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default	Manual
to	BSCCo Ltd	ECVAA-I050	Remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default Feedback	Manual
from	BSCCo Ltd	SAA-I010	BSCCo Ltd Costs (Redundant)	Electronic data file transfer
from	BSCCo Ltd	SAA-I012	Dispute Notification (Part 1)	Manual
to	BSCCo Ltd	SAA-I014	Settlement Report	Electronic data file transfer
To	BSCCo Ltd	SAA-I016	Settlement Calendar (Part 1)	Manual
to	BSCCo Ltd	SAA-I018	Dispute Report (Part 1)	Manual
to	BSCCo Ltd	SAA-I019	BSC Party Performance Reports (Redundant)	Electronic data file transfer
to	BSCCo Ltd	SAA-I020	SAA Performance Reports	Manual
from	BSCCo Ltd	SAA-I023	System Parameters	Manual
To	BSCCo Ltd	SAA-I025	SAA BSC Section D Charging Data	Electronic data file transfer
To	BSCCo Ltd	SAA-I02	Report pre-settlement run validation failure	Manual
From	BSCCo Ltd	SAA-I028	Receive settlement run decision	Manual
From	BSCCo Ltd	SAA-I029	Receive settlement run instructions	Manual
from	BSCCo Ltd	SAA-I031	Receive Market Index Data Provider Thresholds	Manual
to	BSCCo Ltd	SAA-I032	Report Market Index Data Provider Thresholds	Manual
to	BSCCo Ltd	SAA-I034	Report Recommended Data Change	Manual
from	BSCCo Ltd	SAA-I035	Receive Instruction for Data Change	Manual
to	BSCCo Ltd	SAA-I036	Report Confirmation of Data Change	Manual
from	BSCCo Ltd	SAA-I038	Excluded Emergency Acceptance Pricing Information	Manual
to	BSCCo Ltd	SAA-I039	Send Excluded Emergency Acceptance Dry Run Results	Manual
from	BSCCo Ltd	SAA-I040	Receive Authorisation To Proceed With Full Settlement Run	Manual
from	BSCCo Ltd	BMRA-I033	STOR Availability Window	Manual
from	BSCCo Ltd	SAA-I046	STOR Availability Window	Manual

Dir'n	User	Agent-id	Name	Type
From	BSCCo Ltd	SAA-I047	BSCCo Calculated SBR Imbalance Price	Manual
To	BSCCo Ltd	SAA-I048	SBR Imbalance Price Discrepancy Notice	Manual

3.2.2 FAA Interfaces

Dir'n	User	Agent-id	Name	Type
from	FAA	CRA-I004	BSC Service Agent Details	Manual
to	FAA	CRA-I013	Issue Authentication Report	Electronic data file transfer
to	FAA	CRA-I015	BM Unit and Energy Account Registration Data	Electronic data file transfer
from	FAA	CRA-I034	Flexible Reporting Request	Manual
from	FAA	ECVAA-I006	Credit Limit Data	Electronic data file transfer
to	FAA	ECVAA-I016	ECVAA Data Exception Report	Electronic data file transfer
to	*FAA*	*ECVAA-I025*	*Credit Cover Minimum Eligible Amount Report*	*Manual*
from	FAA	SAA-I011	Payment Calendar Data	Manual
to	FAA	SAA-I013	Credit/Debit Reports	Electronic data file transfer

3.2.3 ~~System Operator~~NETSO Interfaces

[P369]

Dir'n	User	Agent-id	Name	Type
from	~~SO~~NETSO	BMRA-I002	Balancing Mechanism Data	Electronic data file transfer, NGC File Format
from	~~SO~~NETSO	BMRA-I003	System Related Data	Electronic data file transfer, NGC File Format
to	*~~SO~~NETSO*	*BMRA-I010*	*Data Exception Reports*	*Electronic data file transfer*
from	~~SO~~NETSO	BMRA-I014	Price Adjustment Data	Automatic
from	*~~SO~~NETSO*	*BMRA-I020*	BM Unit Fuel Type List	*Manual*
from	*~~SO~~NETSO*	*BMRA-I021*	Temperature Reference Data	*Manual*
from	*~~SO~~NETSO*	*BMRA-I022*	Daily Energy Volume Reference Data	*Manual*
from	*~~SO~~NETSO*	*BMRA-I023*	Wind Generation Registered Capacities	*Manual*
from	~~SO~~NETSO	BMRA-I025	SO-SO Prices	Automatic
from	~~SO~~NETSO	BMRA-I026	SO-SO Standing Data	Manual
to	*~~SO~~NETSO*	*CDCA-i012*	*Report Raw Meter Data (Part 1)*	*Electronic Data File Transfer*
to	*~~SO~~NETSO*	*CDCA-I014*	*Estimated Data Report (Part 1)*	*Electronic data file transfer*
to	*~~SO~~NETSO*	*CDCA-I029*	*Aggregated GSP Group Take Volumes (Part 1)*	*Electronic Data File Transfer*
to	*~~SO~~NETSO*	*CDCA-I042*	*BM Unit Aggregation Report (Part 1)*	*Electronic Data File Transfer*
to	~~SO~~NETSO	CDCA-I049	Total Demand Per GSP	Electronic data file transfer
to	*~~SO~~NETSO*	*CDCA-I051*	*Report Meter Technical Details*	*Manual*
from	*~~SO~~NETSO*	*CRA-I007*	*Boundary Point and System Connection Point Registration Data*	*Manual*
from	*~~SO~~NETSO*	*CRA-I008*	*Interconnector Registration Details*	*Manual*
to	~~SO~~NETSO	CRA-I013	Issue Authentication Report	Electronic data file transfer
to	*~~SO~~NETSO*	*CRA-I014*	*Registration Report (Part 1)*	*Electronic Data File Transfer*
to	~~SO~~NETSO	CRA-I020	Operations Registration Report	Electronic data file transfer
to	~~SO~~NETSO	CRA-I028	NGC Standing Data Report	Electronic data file transfer
from	~~SO~~NETSO	CRA-I034	Flexible Reporting Request	Manual
from	*~~SO~~NETSO*	*SAA-I012*	*Dispute Notification (Part 1)*	*Manual*
to	~~SO~~NETSO	SAA-I014	Settlement Report	Electronic data file transfer
to	*~~SO~~NETSO*	*SAA-I017*	*SAA Data Exception Report (Part 1)*	*Electronic data file transfer*
to	*~~SO~~NETSO*	*SAA-I018*	*Dispute Report (Part 1)*	*Manual*
from	~~SO~~NETSO	SAA-I026	Price Adjustment Data	Automatic
from	~~SO~~NETSO	SAA-I033	Receive Request for Data Change	Manual
to	~~SO~~NETSO	SAA-I036	Report Confirmation of Data Change	Manual
from	~~SO~~NETSO	BMRA-I028	Receive REMIT Data	Electronic data file transfer
from	~~SO~~NETSO	BMRA-I029	Receive Transparency Data	Electronic data file transfer

3.2.4 Stage 2 Interfaces

Dir'n	User	Agent-id	Name	Type
to	SVAA	CDCA-I043	GSP Group Take to SVAA	Electronic data file transfer, Pool Transfer File Format
from	SVAA	CRA-I004	Agent Details	Manual
from	SVAA	CRA-I034	Flexible Reporting Request	Manual
to	MDDA	CRA-I015	BM Unit Registration Details	Electronic data file transfer, Pool Transfer File Forma
from	SVAA	SAA-I007	BM Unit Allocated Demand Volume	Electronic data file transfer, Pool Transfer File Format
to	*SVAA*	*SAA-I016*	*Settlement Calendar (Part 1)*	*Manual*
to	*SVAA*	*SAA-I017*	*SAA Data Exception Report (Part 1)*	*Manual*
from	SVAA	SAA-I041	BM Unit SVA Gross Demand Data File	Electronic data file transfer, Pool Transfer File Format
to	SVAA	BMRA-I032	Demand Control Instructions to SVAA	Electronic data file transfer, Pool Transfer File Format
From	SVAA	SAA-I045	BM Unit Allocated Demand Disconnection Volume	Electronic data file transfer, Pool Transfer File Format

3.2.5 Transfer Coordinator Interfaces

Dir'n	User	Agent-id	Name	Type
To	Transfer Coordinator	CRA-I023	Issue Registration Transfer Report	Manual
from	Transfer Coordinator	CRA-I038	Transfer from SMRS information	Manual
to	Transfer Coordinator	CRA-I039	Transfer from SMRS report	Manual
from	Transfer Coordinator	CRA-I040	Transfer to SMRS information	Manual
to	Transfer Coordinator	CRA-I041	Transfer to SMRS report	Manual
from	Transfer Coordinator	CDCA-I055	Transfer from SMRS information	Manual
to	Transfer Coordinator	CDCA-I056	Transfer from SMRS report	Manual
from	Transfer Coordinator	CDCA-I057	Transfer to SMRS information	Manual
to	Transfer Coordinator	CDCA-I058	Transfer to SMRS report	Manual

3.2.6 Internal Interfaces

From	To	Name	Type
BMRA-I007	SAA-I003	SAA Balancing Mechanism Data	Electronic data file transfer
BMRA-I007	ECVAA-I048	SAA/ECVAA Balancing Mechanism Data	Electronic data file transfer
BMRA-I010	*CRA-I030*	*Data Exception Reports*	*Electronic data file transfer*
CDCA-I027	SAA-I004	Aggregated Interconnector Meter Flow Volumes	via shared database
CDCA-I028	SAA-I004	Aggregated BM Unit Metered Volumes	via shared database
CDCA-I036	SAA-I004	GSP Group Take to SAA	via shared database
CDCA-I040[6]	ECVAA-I015	BM Unit 'Credit Cover' Meter Volume Data	Electronic data file transfer
CDCA Site Visit Agent	CDCA-I020	Site Visit Inspection Report	Manual
CDCA Site Visit Agent	CDCA-I035	Site Visit Report on Aggregation Rule compliance	Manual
CRA-I013	ECVAA-I001	Issue Authentication Report	Electronic data file transfer
CRA-I013	SAA-I001	Issue Authentication Report	Via shared database
CRA-I015	BMRA-I001	BM Unit and Energy Account Registration Data	Electronic data file transfer
CRA-I013	BMRA-I001	Issue Authentication Report	Electronic data file transfer
CRA-I015	ECVAA-I001	BM Unit and Energy Account Registration Data	Electronic data file transfer
CRA-I015	SAA-I001	BM Unit and Energy Account Registration Data	Via shared database
CRA-I017	ECVAA-I001	Credit Assessment Export Capability	Electronic data file transfer
CRA-I017	SAA-I002	Credit Assessment Export Capability	Via shared database
CRA-I019	CDCA-I002	Registration Data	Via shared database
CRA-I036	ECVAA-I030	Notification Agent Termination Request	Manual
ECVAA-I011	SAA-I008	Account bilateral Contract Volume Report	Electronic data file transfer
ECVAA-I012	SAA-I008	MVR Notification Report	Electronic data file transfer
ECVAA-I016	CRA-i030	ECVAA Data Exception Report	Electronic data file transfer

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From	To	Name	Type
ECVAA-I031	CRA-I037	Notification Agent Termination Feedback	Manual
ECVAA-I036	BMRA-I018	Publish Credit Default Notices	Electronic data file transfer
ECVAA-I047	CRA-I045	Withdrawing Party Authorisation and Notification Details	Manual
SAA-I013	ECVAA-I033	Credit/Debit Reports	Electronic data file transfer
SAA-I016	*CDCA-I034*	*Settlement Calendar (Part 1)*	*Manual*
SAA-i017	*CDCA-I050*	*Data Exception Reports (Part 1)*	*Via shared database*
SAA-i017	*CRA-I030*	*Data Exception Reports (Part 1)*	*Via shared database*
SAA-i017	*ECVAA-I020*	*Data Exception Reports (Part 1)*	*Electronic data file transfer*
SAA-I037	CRA-I046	Withdrawing Party Settlement Details	Via shared database
SAA-I043	CDCA-I066	Demand Control Instructions to CDCA	Via shared database
SAA-I044	CDCA-I068	Period BM Unit Demand Disconnection Volumes	Via shared database

3.2.7   EMR Settlement Services Provider Interfaces

Dir'n	User	Agent-id	Name	Type
to	EMR Settlement Services Provider	SAA-I014	Settlement Report	Electronic data file transfer
to	CfD Settlement Services Provider	SAA-I042	BM Unit Gross Demand Report	Electronic data file transfer, XML

4   Interfaces From and To Multiple Parties

This section covers a number of interfaces which are common to more than one party.

4.1   CRA-I004: (input) BSC Service Agent Details

Interface ID: CRA-I004 (*EPFAL ref FAA-I033*)	Source: BSCCo Ltd, BSC Service Agents, FAA, SVAA	Title: BSC Service Agent Details	BSC Reference: CRA SD 4.3, CRA BPM 3.1, ERM, CP756, P82
Mechanism: Manual, by email, letter or fax, or can be sent as an electronic data file over the network	**Frequency:** As Necessary	**Volumes:** Low	

The CRA shall receive the registration details for BSC Service Agents, including FAA and SVAA. The details will come from BSCCo Ltd in the first place. Updates will come from the agents themselves.

Action Description

Authentication Details
      Name
      Password

BSC Service Agent Details
      Agent Name
      Agent Identifier

      Service Agent Role Details
      Agent Type
      Effective From Date
      Effective To Date

      Role Address Details
        Address
        Telephone No
        Fax No
        e-mail Address

Physical Interface Details:
A physical structure is defined for this manual interface because the registrant can send this information as an electronic data file over the network; the CRA operator enters the information via a screen-based interface however it is sent.

4.2   CRA-I013: (output) Issue Authentication Report

[P369]

Interface ID: From: CRA-I013 To: BMRA-I001 To: ECVAA-I001 To: SAA-I001 *EPFAL Ref: FAA-I025*	User: FAA ECVAA SAA ~~SO~~NETSO BSCCO	Title: Issue Authentication Report	BSC Reference: CRA SD App B, Serial 4, CRA BPM 4.11, CRA SD 4.1.1.e, CR12, P78, CP918, CP975 CP1193
Mechanism: Electronic data file transfer (except via Shared Database to SAA)	**Frequency:** Daily or additionally as necessary	**Volumes:** Low	

The CRA system shall issue a report containing the authentication details for a BSC Party or Party Agent. The Authentication details shall consist of:

Authentication Details

    BSC Party Details
        Action Code
        BSC Party Name
        BSC Party ID

        Party Role Details
            Action Code
            Party Type
            Registration Effective From Date
            Registration Effective To Date

            Role Address Details
                Action Code
                Address
                Telephone No
                Fax No
                e-mail Address

        Settlement Report Details
            Action Code
            Report Type
            Distribution Method

        Authorised Signatories
            Action Code
            Name
            Password
            Contact Phone No
            e-mail Address

            Authorisation Levels
                Action Code
                Activity
                Effective From Date
                Effective To Date

    BSC Party Agent Details
        Action Code
        Agent Name
        BSC Party Agent ID

        Agent Role Details
            Action Code
            BSC Party Agent Type
            Registration Effective From Date

Registration Effective To Date

<u>Role Address Details</u>
     Action Code
     Address
     Telephone No
     Fax No
     e-mail Address

<u>Authorised Signatories</u>
     Action Code
     Name
     Password
     Contact Phone No
     e-mail Address

<u>Authorisation Levels</u>
     Action Code
     Activity
     Effective From Date
     Effective To Date

<u>Market Index Data Provider Details</u>
     Action Code
     Market Index Data Provider Name
     Market Index Data Provider ID

<u>Market Index Data Provider Effective Dates</u>
     Action Code
     Provider Effective From Settlement Date
     Provider Effective To Settlement Date

The first field of each record of the report is an Action Code, indicating whether the record has a) been added or changed; b) been deleted or c) not changed.
On request the CRA will provide the FAA with copies of sample signatures for Authorised Signatories.

Physical Interface Details:

4.3   CRA-I015: (output) BM Unit, Interconnector and GSP Group Data

Interface ID: From: CRA-I015 To: SAA-I001 To: BMRA-I001 To: ECVAA-I001 *EPFAL Ref: FAA-I02*6	User: SAA, BMRA, ECVAA FAA, Stage 2 MDDA	Title: BM Unit, Interconnector and GSP Group Data	BSC Reference: CRA BPM 3.8, SCH: 4, B, 2.5.2 RETA SCH: 4, B, 2.6.1 SAA SD: 2.7, 5.3.1, A1 SAA BPM: 3.1, 4.26, 4.6, CRA BPM 4.14, CP551, P100, P215
Mechanism: Shared database to SAA; Electronic Data File transfer to BMRA, ECVAA, FAA, SVAA (Pool Transfer File Format to Stage 2 MDDA)	Frequency: Daily	Volumes:	

Interface Requirement:

The CRA Service shall issue Registration data once a day or more frequently if multiple changes occur to the SAA service via the shared database.

The CRA Service shall issue Registration data once a day to the BMRA, ECVAA and FAA services. In this case, the information is transferred via file transfer

The Registration data shall include:

BM Unit, Interconnector and GSP Group Details

    Proportion of Losses Details
        Action Code
        Proportion of Losses (alpha)
        Effective From Date

    Trading Unit Registration
        Action Code
        Trading Unit Name
        BM Unit Details
            Action Code
            BM Unit ID
            Effective From Date
            Effective To Date

    BM Unit Registration
        Action Code
        BM Unit Name
        BM Unit ID
        BM Unit Type
        Lead Party ID
        NGC BM Unit Name
            GSP Group ID (optional)
            GSP Group Name (optional)
        Generation Capacity (MW)
        Demand Capacity (MW)
            Production / Consumption Flag[7]
            Transmission Loss Factor (TLF_{ij})
        FPN Flag
        Credit Qualifying Status
        Demand in Production Flag
        Interconnector ID
        Working Day BM Unit Credit Assessment Import Capability(MW)
        Non-Working Day BM Unit Credit Assessment Import Capability(MW)
        Working Day BM Unit Credit Assessment Export Capability(MW)
        Non-Working Day BM Unit Credit Assessment Export Capability(MW)

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[7] For the interface to ECVAA and BMRA, the Production / Consumption Flag data item actually refers to Production / Consumption Status which is dynamically derived if the Production / Consumption Flag is set to null, or the Production / Consumption Status can be fixed by setting the Production / Consumption Flag for Exempt Export BM Units only.

Effective From Date
Effective To Date

Joint BM Unit Details
     Action Code
     Joint BM Unit ID
     Effective From Date
     Effective To Date
     Joint BM Unit Details
         Action Code
         BM Unit ID

Interconnector Registration Details
     Action Code
     Interconnector ID
     Interconnector Administrator ID
     Interconnector Error Administrator ID
     Effective From Date
         Effective To Date

GSP Group Registration
     Action Code
     GSP Group ID
     GSP Group Name
     Distributor BSC Party ID
     Effective From Date
     Effective To Date

The first field of each record of the report is an Action Code, indicating whether the record has a) been added or changed; b) been deleted or c) not changed.

Details of the registration of Stage 2 BM Units are sent to the Stage 2 MDDA; this is shown as CRA-I015 sub-flow 2 in the physical flow definition (Stage 2 section). The flow to Stage 2 will always consist of the complete set of BM Unit / GSP Group / Supplier relationships from the CRA database, and will be sent whenever there is a change. A Change is determined to have happened if the flow generated is not the same as the previously generated flow (generally the flow generated on the previous day).

Sub-flow 2 will summarise contiguous BM Unit effective date ranges as a single record in the flow with an Effective From Date equal that of the earliest record in the contiguous block, and an Effective To Date equal to that of the latest (this may be null for open ended records).

Sub-flow 2 will report historic data for a BM Unit in addition to current and future data.

Physical Interface Details:

4.4 CRA-I020: (output) Operations Registration Report

[P369]

Interface ID: CRA-I020	User: BSCCo Ltd, SONETSO	Title: Operations Registration Report	BSC Reference: CRA SD A-2, CRA BPM 3.8, CRA BPM 4.10, LDM, RETA SCH 4,B, 2.2.2, P100, CP962, CP642, P215, P310
Mechanism: Electronic data file transfer	Frequency: Daily	Volumes: Low	

The CRA system shall issue a report detailing centrally registered data to the BSCCo Ltd.

The report is used to ensure that data held between the BSCCo Ltd and CRA are consistent. The report also goes to the SONETSO and shall contain the following information:

Operations Registration Details

    Proportion of Losses Details
        Action Code
        Proportion of Losses (alpha)
           Effective From Date

    Trading Unit Registration
        Action Code
        Trading Unit Name

    BM Unit Registration
        Action Code
        BM Unit ID
        BM Unit Type
        Lead Party ID
        NGC BM Unit Name
        BM Unit Name
        GSP Group ID
        GSP Group Name
        Trading Unit Name
        Generation Capacity (MW)
        Demand Capacity (MW)
        WDCALF[8]
        NWDCALF[9]
        SECALF[10]
        WDBMCAIC
        NWDBMCAIC
        WDBMCAEC
        NWDBMCAEC
        Production/Consumption Flag
        Production / Consumption Status
        Exempt Export Flag
        Base TU Flag
        Transmission Loss Factor
        FPN Flag
        Manual Credit Qualifying Flag
        Credit Qualifying Status
        Interconnector ID
        Effective From Date
        Effective To Date

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[8] With the exception that any WDCALF value exceeding ±9.9999999 shall be capped and reported as ±9.9999999 in the CRA-I020. The values of WDBMCAIC and WDBMCAEC reported in the CRA-I020 will still be derived using the 'real' uncapped WDCALF value.
[9] With the exception that any NWDCALF value exceeding ±9.9999999 shall be capped and reported as ±9.9999999 in the CRA-I020. The values of NWDBMCAIC and NWDBMCAEC reported in the CRA-I020 will still be derived using the 'real' uncapped NWDCALF value.
[10] With the exception that any SECALF value exceeding ±9.9999999 shall be capped and reported as ±9.9999999 in the CRA-I020. The values of WDBMCAEC and NWDBMCAEC reported in the CRA-I020 will still be derived using the 'real' uncapped SECALF value.

<u>BM Unit Group Details</u>
    Action Code
    Joint BM Unit ID
    Effective From Date
    Effective To Date
    <u>Joint BM Unit Details</u>
      Action Code
      BM Unit Id

    <u>Interconnector Registration Details</u>
    Action Code
    Interconnector ID
    Interconnector Administrator ID
    Interconnector Error Administrator ID
    Effective From Date
    Effective To Date

The first field of each record of the report is an Action Code, indicating whether the record has a) been added or changed; b) been deleted or c) not changed.

Physical Interface Details:

This report can be issued either as an incremental report, containing only changes since the last report, or as a full refresh. The CRA system will issue a full refresh report detailing centrally registered data to the BSCCo Ltd on a weekly basis.

For Incremental reports, changed and deleted records are included (with Action Codes (a) and (b) respectively), but for full report all records are reported, including those that have not changed (Action Code (c)).

Where a BM Unit's association with Trading Units changes on a date where no other BM Unit attributes change, the BM Unit information will be reported as separate date ranges in order to accurately report the association.

Where a BM Unit's Production / Consumption Status changes on a date where no other BM Unit attributes change (for example as a result of another BM Unit being added or removed from the Trading Unit to which the BM Unit belongs), the BM Unit information will be reported as separate date ranges in order to accurately report the changing status.

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

[P369]

Interface ID: CRA-I028	User: ~~System Operator~~NETSO, BSCCo Ltd	Title: NGC Standing Data Report	BSC Reference: CR_991027_06a
Mechanism: Electronic data file transfer	Frequency: As required	Volumes: Very low volume	

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~~NETSO containing the following.

BSC Party Details
    BSC Party ID
    BSC Party Name

BM Unit Details
    BM Unit ID
    BM Unit Name
    NGC BM Unit Name

GSP Group Details
    GSP Group ID
    GSP Group Name

GSP Details
    GSP ID

Inter-GSP-Connection Details
    Inter-GSP-Connection ID

Boundary Point Details
    Boundary Point ID

Metering System Details
Metering System ID

Physical Interface Details:

4.6   ECVAA-I016: (output) ECVAA Data Exception Report

Interface ID: From: ECVAA-I016 To: CRA-I030 *EPFAL Ref: FAA-I024*	User: FAA, CRA	Title: ECVAA Data Exception Report	BSC Reference: ECVAA SD: 4.2, 5.2
Mechanism: Electronic data file transfer	Frequency: As required.	Volumes: Low	
Interface Requirement: The ECVAA Service shall issue Exception Reports once a day to the CRA to report registration data validation failures. The ECVAA Service shall issue Exception Reports as required to the FAA, to report credit limit data validation failures.			
The Exception Reports shall include:			

File Header of file being processed
    Exception Type
    Exception Description			

4.7   ECVAA-I025: (output) Credit Cover Minimum Eligible Amount Report

This interface is defined in Part 1 of the Interface Definition and Design.

4.8   SAA-I013: (output) Credit/Debit Reports

Interface ID: SAA-I013 ECVAA-I033 *EPFAL Ref:* *FAA-I022, FAA-I023*	User: FAA ECVAA	Title: Credit/Debit Reports	BSC Reference: RETA SCH: 4, B, 2.1.1 SAA SD: 3.53.2, 3.54, 4.1, 4.2, A2 SAA BPM: 3.17, 4.14, 4.15 SAA IRR: SAA5, SAA7, SAA8, SAA9, CP527, P2, CP632
Mechanism: Electronic data file transfer	Frequency: Daily	Volumes: One per Settlement Run	

Interface Requirement:
The SAA Service shall issue Credit/Debit Reports to the ECVAA Service for all Interim Initial Settlement Runs, and to the FAA Service for all other Settlement Runs.
The Credit/Debit Reports shall include:

Settlement Date
    Settlement Run Type
    BSC Party ID
 	
    Charge Type Indicator (may be one of):
        Administration Charge
        Energy Imbalance Cashflows
        Information Imbalance Charges
        Non-delivery Charge
        Residual Cashflow Reallocations
        Daily Party BM Unit Cashflow
        System Operator BM Cashflow
    Charge
 	
(Charge Type Indicator and Charge repeated for each charge type and for each BSC Party Id, including parties which have no charges in this run)

Physical Interface Details:

5 [P369]Interfaces From and To System Operators

5.1 BMRA-I002: (input) Balancing Mechanism Data

Interface ID: BMRA-I002	Source: System Operators	Title: Balancing Mechanism Data	BSC Reference: See verification table, P71, CP921, Variation 60, CP1223, P217, P305
Mechanism: Electronic data file transfer, NGC File Format	**Frequency:** Continuous (as made available from ~~SO~~the NETSO)	**Volumes:**	

The Balancing Mechanism data consists of the following files, as defined in the NGC tab of the IDD Part 2 Spreadsheet

    Gate Closure Data:
        Physical Notification File (PN)
        Quiescent Physical Notification File (QPN)
        Bid-Offer Data File (BOD)
    Declaration Data
        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)

For Settlement Dates prior to the P217 effective date this flow shall also include:

    Acceptance and Balancing Services Data
        Bid-Offer Acceptance Level File (BOAL)
        BM Unit Applicable Balancing Services Volume (QAS)

For Settlement Dates after and including the P217 effective date this flow shall also include:

    Acceptance and Balancing Services Data
        Bid-Offer Acceptance Level Flagged File (BOALF)
        BM Unit Applicable Balancing Services Volume (QAS)

 For Settlement Dates after and including the P305 effective date this flow shall also include:

    Demand Control Instructions
    STOR Availability Window
    Loss of Load Probability and De-rated Margin Data
        Loss of Load Probability
        De-Rated Margin

Physical Interface Details:
Further clarification of the content of the input data from the ~~SO~~NETSO is given below:

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

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)

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

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~~NETSO 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~~NETSO 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

5.2   BMRA-I003: (input) System Related Data

[P369]

Interface ID: BMRA-I003	Source: System Operators	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~~the NETSO)	Volumes:	

Logical:

The System Related data consists of the following files, as defined in the NGC tab of the IDD Part 2 Spreadsheet:

       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)[11]
     Forecast national Surplus Data for 2-52 weeks File (OCNMFW)[12]

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[11] Where OCNMFD is referred to it should be interpreted as being equivalent to SPLD.

National Generating Plant Demand Margin, 2-14 Day (OCNMFD2)
National Generating Plant Demand Margin, 2-52 Week (OCNMFW2)
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)
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)

System warnings will be received as a "text block" rather than a boolean flag.

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.

[P369]In addition to the files above, from time to time the ~~System Operator~~NETSO provides a System Zone Map (in pdf) and a spreadsheet detailing the mapping between NGC and BM Units, for download from the BMRS.

Physical Interface Details:

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 Operator~~NETSO.

The System Zone Map and BM Unit mapping spreadsheets are submitted to the BMRA as email attachments sent to the BSC Service Desk.

5.3   BMRA-I010: (output, common) Data Exception Reports

This interface is defined in Part 1 of the Interface Definition and Design.

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12 Where OCNMFW is referred to it should be interpreted as being equivalent to SPLW.

Sub-flow 2 of BMRA-I010 is used when the exception report relates to adjustment data (NGC030). If enabled by a system parameter, a BMRA-I010 report will also be sent to confirm successful receipt of the adjustment data.

5.4   [P369]BMRA-I014: (input) Price Adjustment Data

Interface ID:	Source:	Title:	BSC Reference:
BMRA-I014	~~SO~~The NETSO	Price Adjustment Data	P8, P78, CP1223, P217
Mechanism:	**Frequency:**	**Volumes:**	
Automatic	continuous	Each file will typically contain the data for one Settlement Date (a file may contain data for a single period, or covering multiple dates). Data for each Settlement Period will normally appear in 2-4 files.	

Interface Requirement:

The BMRA Service shall receive the following data from the ~~SO~~NETSO via an automatic interface.

Balancing Services Adjustment Data

     Settlement Date
         Settlement Period (1-50)
         $EBCA_j$ (Net Buy-Price Cost Adjustment)(Energy)
         $EBVA_j$ (Net Buy-Price Volume Adjustment)(Energy)
         $SBVA_j$ (Net Buy-Price Volume Adjustment)(System)
         BPA_j (Buy-Price Price Adjustment)
         $ESCA_j$ (Net Sell-Price Cost Adjustment)(Energy)
         $ESVA_j$ (Net Sell-Price Volume Adjustment)(Energy)
         $SSVA_j$ (Net Sell-Price Volume Adjustment)(System)
         SPA_j (Sell-Price Price Adjustment)

For Settlement Dates after, and including the P217 effective date, this flow shall also include:

Disaggregated Balancing Services Adjustment Data
     Settlement Date
     Settlement Period
         Balancing Services Adjustment Action ID (unique for Settlement Period)
         Balancing Services Adjustment Action Cost (£)
         Balancing Services Adjustment Action Volume (MWh)
         Balancing Services Adjustment Action SO-Flag (True/False)

For Settlement Dates after, and including the P305 effective date, the Disaggregated Balancing Services Adjustment Data file shall also include:
         Balancing Services Adjustment Action STOR Provider Flag ('T' or 'F')

Balancing Services Adjustment Data for Settlement Dates after, and including the P217 effective date will always have a value of zero for the following data items:

     Net Energy Buy Price Cost Adjustment (EBCA) (£)
     Net Energy Buy Price Volume Adjustment (EBVA) (MWh)
     Net System Buy Price Volume Adjustment (SBVA) (MWh)
     Net Energy Sell Price Cost Adjustment (ESCA) (£)
     Net Energy Sell Price Volume Adjustment (ESVA) (MWh)
     Net System Sell Price Volume Adjustment (SSVA) (MWh)

The BMRA will validate these values and, where they are found to be non-zero, set the values to

Interface ID:	Source:	Title:	BSC Reference:
BMRA-I014	~~SO~~The NETSO	Price Adjustment Data	P8, P78, CP1223, P217

zero and pass the details of the validation failure to BSCCo.
Physical Interface Details:
This file is in NGC File Format, using Group Definitions NGC32 and NGC36 respectively in the NGC tab of the spreadsheet
Issues:

5.5 BMRA-I020: (input) BM Unit Fuel Type List

Interface ID: BMRA-I020	Source: SO	Title: BM Unit Fuel Type List	BSC Reference: P220
Mechanism: Manual, MS Excel Spreadsheet, by email.	**Frequency:** As Necessary	**Volumes:** Infrequent, generally when new BM Units are added	

The BMRA shall receive the BM Unit Fuel Type List containing the following data:

BM Unit Details
    NGC BM Unit Name
    BM Unit Identifier
    Primary Fuel Type
    Effective From Date
    Effective To Date
Registered Wind Generation Capacity Details
    Total Registered Capacity
    Effective From Date

Physical Interface Details:
The details described above shall be provided to the BMRA as an MS Excel Spreadsheet.

5.6 BMRA-I021: (input) Temperature Reference Data

Interface ID: BMRA-I021	Source: SO	Title: Temperature Reference Data	BSC Reference: P220
Mechanism: Manual, CSV, by email.	**Frequency:** Annually	**Volumes:** One record per day in a calendar year	

The BMRA shall receive the Temperature Reference containing the following data:

Temperature Details
    Calendar Date
    Normal Reference Temperature
    Low Reference Temperature
    High Reference Temperature

Physical Interface Details:
The details described above shall be provided to the BMRA as a CSV text file.

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5.7 BMRA-I022: (input) Daily Energy Volume Reference Data

Interface ID: BMRA-I022	Source: SO	Title: Daily Energy Volume Reference Data	BSC Reference: P220
Mechanism: Manual, CSV, by email.	Frequency: Annually	Volumes: One record per day in a calendar year	

The BMRA shall receive the Daily Energy Volume Reference containing the following data:

Volume Details
    Calendar Date
    Normal Reference Volume
    Low Reference Volume
    High Reference Volume

Physical Interface Details:
The details described above shall be provided to the BMRA as a CSV text file.

5.8 BMRA-I023: (input) Wind Generation Registered Capacities

Interface ID: BMRA-I023	Source: SO	Title: Wind Generation Registered Capacities	BSC Reference: P220
Mechanism: Manual, MS Excel Spreadsheet, by email.	Frequency: As Necessary	Volumes: Infrequent, generally when new Power Park Modules are added	

The BMRA shall receive the Wind Generation Registered Capacities containing the following data:

Power Park Module Details
    Power Park Module Identifier
    Power Park Module Name
    Registered Capacity (MW)
Total Registered Capacity of all Power Park Modules (MW)

Physical Interface Details:
The details described above shall be provided to the BMRA as an MS Excel Spreadsheet. The effective-from date of the Total Registered Capacity shall be included in the body of the email.

5.9 BMRA-I034: (input) Trading Unit Data

This interface is as defined in the SAA-I049 dataflow.

5.10 CDCA-I012: (output, part 1) Report Raw Meter Data

This interface is defined in Part 1 of the Interface Definition and Design.

5.11 CDCA-I029: (output, part 1) Aggregated GSP Group Take Volumes

This interface is defined in Part 1 of the Interface Definition and Design.

5.12 CDCA-I042: (output, part 1) BM Unit Aggregation Report

This interface is defined in Part 1 of the Interface Definition and Design.

5.13 [P369]CDCA-I049: (output) Total Demand per GSP

Interface ID: CDCA-I049	User: ~~System Operator~~The NETSO	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~~NETSO, 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:			

5.14   CDCA-I051: (output) Report Meter Technical Details

This interface is defined in Part 1 of the Interface Definition and Design.

5.15   CDCA-I067: (input) Disconnected CVA BM Units

This interface is defined in Part 1 of the Interface Definition and Design.

5.16   CRA-I007: (input/output) Boundary Point and System Connection Point Data

This interface is defined in Part 1 of the Interface Definition and Design.

5.17   CRA-I008: (input) Interconnector Registration Details

This interface is defined in Part 1 of the Interface Definition and Design.

5.18   CRA-I013: (output, common) Issue Authentication Report

This interface is defined in Section 4.

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

[P369]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.~~NETSO.

5.20   CRA-I020: (output) Operations Registration Report

This interface is defined in Section 4.

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

This interface is defined in Section 4.

5.22   SAA-I012 (input, part 1) Dispute Notification

This interface is defined in Part 1 of the Interface Definition and Design.

5.23   [P369]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~~NETSO 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~~The NETSO, 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:	

The first part of the report contains general information:

Settlement Day 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

    Settlement Period Information (for all Settlement Dates)
    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
<u>Settlement Period Information</u> (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

<u>Market Index Information:</u>
Market Index Data Provider
Individual Liquidity Threshold
Market Index Price
Market Index Volume

<u>Balancing Services Adjustment Action Data</u> (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)

<u>Trading Unit Period Information:</u>
Trading Unit Name
Total Trading Unit Metered Volume (MWh)

<u>BM Unit Period Information:</u>
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)

<u>Maximum Export Limit Information:</u>
Time From
Level From (MW)
Time to
Level To (MW)

<u>Maximum Import Limit Information:</u>
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:

<u>BSC Party Settlement Date 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
Aggregate Party Day Charges (defined in IDD Part 1 section 8.4.1)

    <u>Settlement Period Information:</u>
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)

        <u>Account Period Information:</u>
Production/Consumption Flag (a)
Account Period Data (defined in IDD Part 1 section 8.4.4)

            <u>Account Period BMU Information:</u>
BM Unit ID (i)
Account Period BMU Data (defined in IDD Part 1 section 8.4.5)

        <u>BM Unit Period Information:</u>
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)

            <u>BM Unit Period FPN Spot Points ($^{f}FPN_{it}$):</u>
Time from
FPN Value from
Time to
FPN Value to

            <u>BM Unit Period Bid-Offer Information:</u>
Bid-Offer pair number (n)
Bid-Offer Data (defined in IDD Part 1 section 8.4.7)

                <u>BM Unit Period Bid-Offer Spot Points ($^{f}QBO^{n}_{ij}$):</u>
Time from
Bid-Offer Value from
Time to
Bid-Offer Value to

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

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

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

                <u>BM Unit Period Bid-Offer Acceptance Spot Points (qA^{k}_{it}):</u>
Time from
Bid-Offer Acceptance Level Value From
Time to
Bid-Offer Acceptance Level Value To

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

            <u>BM Unit MVR Information:</u>
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^n_i 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

5.24 SAA-I017: (output, common) SAA Data Exception Report

This interface is defined in Part 1 of the Interface Definition and Design.

Sub-flow 2 of SAA-I017 is used when the exception report relates to adjustment data (NGC030). If enabled by a system parameter, an SAA-I017 report will also be sent to confirm successful receipt of the adjustment data.

5.25 SAA-I018 (output, part 1) Dispute Report

This interface is defined in Part 1 of the Interface Definition and Design.

5.26   SAA-I026: (input) Price Adjustment Data

Interface ID: SAA-I026	Source: SO	Title: Price Adjustment Data	BSC Reference: P8, P78, P217, P305
Mechanism: Automatic	**Frequency:** continuous	**Volumes:** Each file will typically contain the data for one Settlement Date (a file may contain data for a single period, or covering multiple dates). Data for each Settlement Period will normally appear in 2-4 files.	

Interface Requirement:

The SAA Service shall receive the following data from the SO via an automatic interface.

Balancing Services Adjustment Data
    Settlement Date
    Settlement Period (1-50)
        $EBCA_j$ (Net Buy-Price Cost Adjustment)(Energy)
        $EBVA_j$ (Net Buy-Price Volume Adjustment)(Energy)
        $SBVA_j$ (Net Buy-Price Volume Adjustment)(System)
        BPA_j (Buy-Price Price Adjustment)
        $ESCA_j$ (Net Sell-Price Cost Adjustment)(Energy)
        $ESVA_j$ (Net Sell-Price Volume Adjustment)(Energy)
        $SSVA_j$ (Net Sell-Price Volume Adjustment)(System)
        SPA_j (Sell-Price Price Adjustment)

For Settlement Dates after, and including the P217 effective date, this flow shall also include:

Disaggregated Balancing Services Adjustment Data
    Settlement Date
    Settlement Period
        Balancing Services Adjustment Action ID (unique for Settlement Period)
        Balancing Services Adjustment Action Cost (£)
        Balancing Services Adjustment Action Volume (MWh)
        Balancing Services Adjustment Action System Flag (True/False)

For Settlement Dates after, and including the P305 effective date, the Disaggregated Balancing Services Adjustment Data file shall also include:

        Balancing Services Adjustment Action STOR Provider Flag (True/False)

Balancing Services Adjustment Data for Settlement Dates after, and including the P217 effective date will always have a value of zero for the following data items:

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

The SAA will validate these values and, where they are found to be non-zero, set the values to zero and pass the details of the validation failure to BSCCo.

Physical Interface Details:

Note that this file is in NGC File Format, and uses Group Definitions NGC32 and NGC36 respectively in the NGC tab of the spreadsheet

Issues:

5.27   [P369]SAA-I033: (input) Receive Request for Data Change

Interface ID: SAA-I033	Source: ~~System Operator~~The NETSO	Title: Receive Request for Data Change	BSC Reference: CP995, P172
Mechanism: Manual	**Frequency:** Ad-hoc	**Volumes:** Low	

Interface Requirement: The ~~System Operator~~NETSO shall send to the SAA and BSCCo requests for data change where it is found that the data originally submitted was incorrect or incomplete. 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.
Non Functional Requirement: Data changes are only applicable to the data types: BOAL, BOD, FPN, and QPN.
Issues:

5.28   BMRA-I024: (input) Large Combustion Plant Directive Spreadsheet[13]

Interface ID: BMRA-I024	Source: BSCCo	Title: Large Combustion Plant Directive Spreadsheet	BSC Reference: P226
Mechanism: Manual, MS Excel Spreadsheet, by email.	**Frequency:** As Necessary	**Volumes:** Adhoc	

The BMRA shall receive the Large Combustion Plant Directive Spreadsheet containing data (in a single spreadsheet) including:
 	
LCP Unit
    A register of BM Units that are part of a LCP Unit under the terms of the Directive
    The status of each LCP Unit:
    The cumulative operational hours from 1 January 2008 to date for each LCP Unit,
    The remaining operational hours for each LCP Unit for Opted Out Plant,
    NERP and ELV 'B Specific Limits' traded since 1 January 2008 and over the last month,
    Derogation applications details for each Opted In LCP Unit applied for, awaiting a decision
    Derogation applications details for each Opted In LCP Unit that have been granted,
    Emission limits for each Opted In LCP Unit.
    Details of notification of breakdown or malfunction of abatement equipment.
 	
The spreadsheet is only to be used within the BMRS as a downloadable file.
 	
Previous versions of the spreadsheet will also be available for download

Physical Interface Details: The details described above shall be provided to the BMRA as an MS Excel Spreadsheet for download from the BMRS website.

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[13] P226

5.29   [P369]BMRA-I025: (input) SO-SO Prices

Interface ID: BMRA-I025	Source: ~~System Operator~~The NETSO	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)	

Logical:

The BMRA shall receive SO-SO prices in an XML file and will include:

- The Resource Provider i.e. the Transmission System Operator (TSO)~~System Operator~~NETSO 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~~NETSO 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

5.30   [P369]BMRA-I026: (input) SO-SO Standing Data

Interface ID: BMRA-I026	Source: ~~System Operator~~The NETSO	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	

Logical:

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).

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.

In order to support this process, the BMRA shall receive standing data defining the attributes associated with each SO-SO Trade Type:

- 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.

5.31   BMRA-I028: (input) Receive REMIT Data

This interface is defined in Part 1 of the Interface Definition and Design.

5.32   [P369]BMRA-I029: (input) Receive Transparency Regulation Data

Interface ID: BMRA-I029	Source: ~~System Operator~~The NETSO	Title: Transparency Data	BSC reference: P295
Mechanism: Electronic data file transfer, XML and PDF	Frequency: Continuous (as made available from ~~System Operator~~the NETSO)	Volumes:	

Logical:
The BMRA shall receive Transparency Regulation Data in the form of XML and PDF files relating to the following categories: • Load • Outages • Transmission • Congestion Management • Generation • Balancing Each category contains a set of individual articles, each of which is represented by a particular file.

Physical Interface Details:
These files will be received in formats as defined by ENTSO-e. Data items in XML files will be defined in the relevant XML Schemas Definition (XSD) and in accordance to the ENTSO-e's Manual of Procedures (V2.1); details are available from the Transparency section of the ENTSO-E Website (www.entsoe.eu).

6 Interfaces From and To FAA

6.1 CRA-I004: (input, common) BSC Service Agent Details

This interface is defined in Section 4.

6.2 CRA-I013: (output, common) Issue Authentication Report

This interface is defined in Section 4.

6.3 CRA-I015: (output, common) BM Unit and Energy Account Registration Data

This interface is defined in Section 4.

6.4 ECVAA-I006: (input) Credit Limit Data

Interface ID: ECVAA-I006 *EPFAL Ref: FAA-I019*	Source: FAA	Title: Credit Limit Data	BSC Reference: ECVAA SD: 5, A ECVAA BPM: 3.3, 4.17 RETA SCH: 4, B, 3.3, CR12
Mechanism: Electronic data file transfer	Frequency: Continuous, when credit limit data changes	Volumes: 1 file sent per BSC Party initially. 1 file sent per BSC Party upon change to Credit Limit	
Interface Requirement: The ECVAA Service shall receive Credit Limit data from the FAA Service as and when a BSC Party's credit limit changes. Note: Currently the FAA service only operates during normal working hours and therefore Credit Limit data will only be expected during these hours.			

The Credit Limit data shall include:
 	
Party Credit Limit Details
    BSC Party ID
    Effective From Settlement Date
    Credit Limit (MWh)			

6.5   ECVAA-I016: (output, common) ECVAA Data Exception Report

This interface is defined in Section 4.

6.6   SAA-I011: (input) Payment Calendar Data

Interface ID: SAA-I011	Source: BSCCo	Title: Payment Calendar Data	BSC Reference: RETA SCH: 4, B, 2.3.1 SAA SD: 2.8, A1 SAA BPM: 3.2, 4.27, CP527 CP1223
Mechanism: Manual (CSV file delivered as an email attachment, plus hard copy)	Frequency: Annual	Volumes: Draft: 1 file per year, CSV file. Agreed 1 file per year, data file plus hard copy.	

Interface Requirement:

The SAA Service shall receive Payment Calendar data annually from the BSCCo.

The Payment Calendar data shall include:

Settlement Date
Settlement Run Type
Notification Date (the date by which SAA must provide the settlement data to the FAA)
Payment Date
Notification Period
Payment Period

6.7   SAA-I013: (output, common) Credit/Debit Reports

This interface is defined in Section 4.

7 Interfaces From and To BSCCo Ltd

7.1 BMRA-I010: (output, common) Data Exception Reports

This interface is defined in Part 1 of the Interface Definition and Design.

7.2 BMRA-I011: (output) Performance Reports

Interface ID: BMRA-I011	User: BSCCo Ltd	Title: Performance Reports	BSC Reference: BMRA SD B1, B2, B3, B4, B5, B6, B7, P78
Mechanism: Manual, probably in whole or in part produced using a report-formatting tool.	Frequency: Monthly	Volumes: As required.	

Interface Requirement:

The BMRA Service shall issue Performance Reports to the BSCCo Ltd on a monthly basis.

Performance reports shall include the following:

1. All occurrences of BMRA outages exceeding 30 minutes;
2. All occurrences of valid registration data not incorporated in BMRA systems within 1 hour of receipt;
3. All occurrences of valid new or updated system related data not published within 5 minutes of receipt;
4. All occurrences of valid new balancing mechanism data not published within 5 minutes of receipt;
5. All occurrences of derived data not published within 15 minutes of settlement period end;
6. All tested occurrences of high grade BMR service user main screen not loaded within 10 seconds;
7. All tested occurrences of high grade BMR service user switch screen operations that exceed 1 second;
8. All tested occurrences of high grade BMR service user data downloads that do not begin within 1 minute of request.

BMRA will report on the performance of the Market Index Data Providers. This performance data will include the following information:

Month Ending Date
Market Index Data Provider Identifier
Number of Settlement Periods for which Market Index Data was not provided
Number of Settlement Periods where Individual Liquidity Threshold required default by BMRA
Number of Settlement Periods where zeroes were used in Indicative Calculations

Physical Interface Details:

7.3   BMRA-I012: (input) System Parameters

Interface ID::	Status:	Title:	BSC Reference:
BMRA-I012	Mandatory	System Parameters	CR 003, P10, P18A, P194, P217, P305
Mechanism:	**Frequency:**	**Volumes:**	
Manual	Ad-hoc	Low – typically one or two per month	

Interface Requirement:

The BMRA Service shall receive the following system parameters from the BSCCo Ltd via a manual interface, expected to be either a fax or telephone call:

   Effective from Settlement Date
   Effective from Settlement Period (1-50)
   Effective to Settlement Date
   Effective to Settlement Period (1-50)
   ETLMO+
   ETLMO-
   Arbitrage Flag
   NRL_j (Notional Reserve Limit) (MW)
   $DMAT_d$ (De Minimis Acceptance Threshold) (MWh)
   $CADL_d$ (Continuous Acceptance Duration Limit (minutes)
   PAR_d (Price Average Reference Volume) (MWh) (0-9,999,999,999)
   $RPAR_d$ (Replacement Price Average Reference Volume) (MWh)
   VoLL (Value of Lost Load) (£/MWh)

Physical Interface Details:

The BSCCo Ltd system parameter values shall continue to apply to all settlement periods, until a change to a parameter is made.

Issues:

7.4   BMRA-I013: (output) BMRA BSC Section D Charging Data

Interface ID:	User:	Title:	BSC Reference:
BMRA-I013	BSCCo Ltd	BMRA BSC Section D Charging Data	CR 65, CN160

Mechanism:	Frequency:	Volumes:
Manual	Monthly	

Interface Requirement:

The system shall, on the 15th working day of each month, collect information required for charging BSC parties under Section D of the Code and send this to BSCCo Ltd.

The information included shall be:

Month
        Participant Id
        Participant Name
        Count of Physical lines installed
        Count of Comms Base Software (up to 5 users)
        Count of Comms additional Software (each additional user)

Each month the information will be produced for both the previous calendar month and the month before that. Data used shall be the latest available data from Interim Run and Initial Run only

Physical Interface Details:

7.5 CDCA-I014: (output, part 1) Estimated Data Report

This interface is defined in Part 1 of the Interface Definition and Design.

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7.6 BMRA-I016: (input) Receive Market Index Data Provider Thresholds

Interface ID: BMRA-I016	Source: BSCCo	Title: Receive Market Index Data Provider Thresholds	BSC Reference: P78
Mechanism: Manual	Frequency: Ad-hoc	Volumes: This manual flow is expected to handle a maximum of 6 date ranges to be defined, for each MIDP, for each year. Each date range to have a maximum of 4 different Liquidity Thresholds.	
Interface Requirement:			

The BMRA shall receive Market Index Data Provider Liquidity Threshold data from BSCCo. The processing rules for this flow are described in BMRA-F008.
 	
The flow shall include:
 	
    Market Index Data Provider Identifier
        MIDP Date Range
        Action Type
        Effective From Settlement Date
        Effective To Settlement Date
            MIDP Period Data
            Effective From Settlement Period (1-50)
            Effective To Settlement Period (1-50)
            Liquidity Threshold
 	
Action Type describes the type of operation to be performed in relation to the data supplied in the other fields. It can be one of:
• Insert;
• Update;
• Delete.			

Physical Interface Details:			
Issues:			

7.7   BMRA-I017: (output) Report Market Index Data Provider Thresholds

Interface ID: BMRA-I017	User: BSCCo	Title: Report Market Index Data Provider Thresholds	BSC Reference: P78
Mechanism: Manual	**Frequency:** In response to BMRA-I016, as described in BMRA-F008	**Volumes:** This manual flow is expected to handle a maximum of 6 date ranges to be defined, for each DP, for each year. Each date range to have a maximum of 4 different Liquidity Thresholds.	
Interface Requirement:			

The BMRA shall report Market Index Data Provider Liquidity Threshold to BSCCo.
 	
The flow shall include:
 	
    Market Index Data Provider Identifier
        <u>MIDP Date Range</u>
        Effective From Settlement Date
        Effective To Settlement Date
            <u>MIDP Period Data</u>
            Effective From Settlement Period (1-50)
            Effective To Settlement Period (1-50)
            Liquidity Threshold			

Physical Interface Details:			
Issues:			

7.8   CDCA-I018: (output, part 1) MAR Reconciliation Report

This interface is defined in Part 1 of the Interface Definition and Design.

7.9   CDCA-I019: (output, part 1) MAR Remedial Action Report

This interface is defined in Part 1 of the Interface Definition and Design.

7.10   CDCA-I022: (input) Distribution Line Loss Factors

The BSC Parties send the Distribution Line Loss Factors to the BSCCo Ltd for validation, then the BSCCo Ltd sends them on to CDCA via this interface:

Interface ID: CDCA-I022	Source: BSCCo Ltd	Title: Distribution Line Loss Factors	BSC Reference: CDCA SD 15.1 CDCA BPM 4.5 (?), CP548
Mechanism: Electronic data file transfer	Frequency: Annually	Volumes: 17568000 factors (1000 metering systems * 366 * 48)	
Interface Requirement:			

The CDCA receives Line Loss Factors relating to a Metering System from BSCCo Ltd.
 	
   Metering System Identifier
     Settlement Date
       Settlement Period
      Line loss Factor
 	
Note that each instance of the flow may contain up to 200000 records, and that it is legal for replacement data to be provided where necessary.			

Physical Interface Details:			

7.11   CDCA-I023: (output) Missing Line Loss Factors

Interface ID: CDCA-I023	User: BSCCo Ltd	Title: Missing Line Loss Factors	BSC Reference: CDCA SD 15.2, CP527
Mechanism: Manual	**Frequency:** Monthly, covering a period of four months from the run date	**Volumes:** 17520000 factors (1000 metering systems * 365 * 48)	
Interface Requirement:			

The CDCA shall validate such Line Loss Factors received from the BSCCo Ltd. Any missing or invalid factor values will be reported back to the BSCCo Ltd.

Attributes are likely to include:

File Reference for Line Loss Factors
Date LLF File Received
File Acceptance Status (all accepted, partially accepted, file rejected)
Date of Acceptance Status
File Rejection Reason (if File Acceptance Status = file rejected)

Details of any individual exceptions:
Metering System Identifier (for site specific Line Losses)
Settlement Date
Time Period
Line Loss Factor
Reason for rejection

Physical Interface Details:

7.12   CDCA-I032: (output) Data Collection and Aggregation Performance Report

Interface ID: CDCA-I032	User: BSCCo Ltd (Customer)	Title: Data Collection and Aggregation Performance Report	BSC Reference: CDCA SD 19.6 CP1153
Mechanism: Manual, probably in whole or in part produced using a report-formatting tool.	Frequency: As below	Volumes:	
Interface Requirement:			

CDCA shall provide performance reports on the data collection and data aggregation functions to the BSCCo Ltd.

These shall include:

Monthly, or immediately if service level falls below agreed level for each item:
Percentage of total number of Outstation Channels interrogated;
Percentage of total number of Outstation Channels successfully read by agreed time [eg 09:00 at Day+1];
Percentage of data needing to be estimated that was created in time for Interim Initial Settlement;
Percentage of data needing to be estimated that was agreed with BSC Party in time for Initial Settlement;
Percentage of raw meter data sent to relevant BSC Party by agreed time [eg 13:00 on Day+1];
Percentage of aggregated meter data which included estimates sent to SAA for Interim Initial Settlement;
Percentage of aggregated meter data which included estimates sent to SAA for Initial Settlement;

Monthly:
Percentage of changed metered data reported to SAA in time for next Settlement Run for relevant Settlement Day;
Percentage of occasions where Site appointments were kept on agreed date and time;
Percentage of occasions where help desk queries were registered to agreed timescales;
Percentage of occasions where help desk queries were responded to within agreed timescales according to severity level;
Percentage of occasions where help desk queries were resolved to agreed timescales.

Quarterly:
Percentage of responses to MOA for Proving Test requests given by agreed time [eg 5 working days] for remote tests;
Percentage of responses to MOA for Proving Test requests given by agreed time [eg 1 working day] for local tests;
Percentage of suspected metering system faults notified to MOA within agreed time [eg 1 working day];
Percentage of MAR data and reports issued to BSC Party within agreed timescales [eg three, six or twelve months for a given metering system; refer to CDCA-F013 for details];
Percentage of reports issued in complete, accurate and correct format to BSC Parties and SAA over the period;

Quarterly, or immediately if service level falls below agreed level for each item:
Percentage of Proving Test results sent to MOA within agreed time [eg 1 working day] of completion;

By exception and confirmed monthly:
Percentage of cases where receipt of information from a BSC Party is confirmed back to Party within agreed timescales [eg 15 minutes for data received electronically];
Percentage of cases where information received from CRA or a BSC Party is processed within agreed timescales;

Physical Interface Details:

7.13   CDCA-I047: (output, part 1) Correspondence Receipt Acknowledgement

This interface is defined in Part 1 of the Interface Definition and Design

7.14   CDCA-I061 (input) Receive System Parameters

Interface ID:: CDAA-I061	Status: Mandatory	Title: System Parameters	BSC Reference: CP751
Interface Requirement:			
The CDCA Service shall receive the following system parameters from the BSCCo Ltd via a manual interface, expected to be either a fax or telephone call: Primary/Secondary Time-Shift Factor			
Physical Interface Details:			
The BSCCo Ltd system parameter values shall continue to apply to all settlement periods, until a change to a parameter is made.			
Issues:			

7.15   CDCA-I062: (input) Receive Sample Settlement Periods[14]

Interface ID: CDCA-I062	Source: BSCCo Ltd	Title: Receive Sample Settlement Periods	BSC Reference: P82
Mechanism: Manual	**Frequency:** Annually	**Volumes:** 600 periods	
Interface Requirement:			

CDCA shall receive the specification of all Load Periods and Sample Settlement Periods for the latest Reference Year from BSCCo Ltd, via a manual interface.
 	
CDCA shall receive the data for the latest Reference Year, no later than 5 October in the current BSC Year.
 	
The following information shall be included in the interface:
 	
Reference Year
      Load Period Name
      Settlement Date
      Sample Settlement Period
      Total Number of Sample Settlement Periods in Load Period
      Total Number of Settlement Periods in Load Period			

Physical Interface Details:			
A physical structure is defined for this manual interface because it will be processed automatically.			

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[14] This functionality was added for the Introduction of Zonal Transmission Losses on an Average Basis (P82), but will not be used.

7.16   CDCA-I063: (output) Metered Volume Data for Sample Settlement Periods

Interface ID: CDCA-I063	User: BSCCo	Title: Metered Volume Data for Sample Settlement Periods	ITT reference: P350
Mechanism: Manual	Frequency: Annually	Volumes: 450,000 volumes (600 Sample Settlement Periods * 750 Volume Aggregation Units[15])	

Interface Requirement:

CDCA shall send Metered Volume Data for Sample Settlement Periods to BSCCo.
 	
The following information shall be included in the interface:
 	
Header
Reference Year
 	
       Grid Supply Point Metered Volume Data
       Grid Supply Point Identifier
       Settlement Date
       Settlement Period
       Metered Volume
 	
       Interconnector Metered Volume Data
       Interconnector Identifier
       Settlement Date
       Settlement Period
       Metered Volume
 	
       BM Unit Metered Volume Data
       BM Unit Identifier
       Settlement Date
       Settlement Period
       Metered Volume
 	
The Metered Volume data will be signed to indicate the direction of energy flow; a positive sign indicates export on to the system and a negative sign indicates import from the system.

Physical Interface Details:
A physical structure is defined for this manual interface because it will be processed automatically. The field delimiter will be a single comma (i.e CSV format) with no comma at the end of a line. A header and footer record will be included in the file, as follows:

Header Information

Record Type	Fixed String "HDR"
Reference Year	String YYYY-YYYY
Creation Datetime	String YYYYMMDDHHMISS

Footer Information

Record Type	Fixed String "FTR"
Body Record Count	Count of body records

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[15] The number of VAUs excludes GSP Groups and BM Units embedded in a Distribution System, which are not used in the calculation of Transmission Loss Factors

7.17   **CDCA-I064: (output) MOA Proving Tests Report**

Interface ID: CDCA-I064	User: BSCCo Ltd	Title: MOA Proving Tests Report	BSC Reference: P99
Mechanism: Manual	**Frequency:** Monthly	**Volumes:** Low	

Interface Requirement:

CDCA shall report the following information to the BSCCo, after the end of every month:

<u>Participant Header</u>
Market Sector
Market Participant Role Code
Meter Operator Agent Id
Period End Date
Periodicity
       <u>CVA MOA Serial 1 Data</u>
       GSP Group ID
       Number of MSIDs for which Proving Test outstanding
       Average number of business days for which Proving Test is outstanding after scheduled date of Proving Test, at time of report
       Count of faults outstanding after scheduled date of Proving Test

The report shall be produced in POOL file format, and sent to the BSCCo (as an email attachment) no later than 7 Business Days after the end of the month to which the data pertains.

Physical Interface Details:

The filename shall be CDCA133<last digit of the year number>.<MON>, where <MON> is the reporting month (e.g. JAN, FEB, etc.).

See the physical flow for details, in the BSCCo Ltd tab of the IDD Part 2 spreadsheet.

ZHD Header information:

File Type	='P0133001'
From Role Code	='Z'
From Participant Id	= 'CDCA'
To Role Code	='Z'
To Participant Id	='POOL"
Creation Time	date and time (local) of file generation YYYYMMDDHHMISS

7.18   CDCA-I065: (output) MOA Fault Resolution Report

Interface ID: CDCA-I065	User: BSCCo Ltd	Title: MOA Fault Resolution Report	BSC Reference: P99
Mechanism: Manual	**Frequency:** Monthly	**Volumes:** Low	

Interface Requirement:

CDCA shall report the following information to BSCCo Ltd, after the end of every month:
 	
Participant Header
Market Sector
Market Participant Role Code
Meter Operator Agent Id
Period End Date
Periodicity
       CVA MOA Serial 2 Data
       GSP Group ID
       Number of MSIDs with fault
       Count of faults identified
       Average number of business days faults outstanding
       Average number of business days taken to resolve fault
 	
The report shall be produced in POOL file format, and sent to BSCCo Ltd (as an email attachment) no later than 7 Business Days after the end of the month to which the data pertains.

Physical Interface Details:
The filename shall be CDCA134<last digit of the year number>.<MON>, where <MON> is the reporting month (e.g. JAN, FEB, etc.). See the physical flow for details, in the BSCCo Ltd tab of the IDD Part 2 spreadsheet. ZHD Header information:

File Type	='P0134001'
From Role Code	='Z'
From Participant Id	= 'CDCA'
To Role Code	='Z'
To Participant Id	='POOL"
Creation Time	date and time (local) of file generation YYYYMMDDHHMISS

7.19   CRA-I001: (input & output, part 1) BSC Party Registration Data

This interface is defined in Part 1 of the Interface Definition and Design.

7.20   CRA-I003: (input, part 1) BSC Party Agent Registration Data

This interface is defined in Part 1 of the Interface Definition and Design.

7.21   CRA-I004: (input, common) BSC Service Agent Details

This interface is defined in Section 4.

7.22   CRA-I009: (input) Receive Manual Credit Qualifying Flag

Interface ID: CRA-I009	Source: BSCCo Ltd	Title: Manual Credit Qualifying Flag	BSC Reference: P215
Mechanism: Manual, by email, letter or fax	Frequency: As necessary	Volumes:	
The CRA shall receive, from time to time the Manual Credit Qualifying Flag for a BM Unit from BSCCo Ltd. The information shall contain: Credit Qualifying Details BM Unit Id Manual Credit Qualifying Flag (True/False) Effective From Date Effective To Date (can be undefined)			
Physical Interface Details:			

7.23   CRA-I011: (input) Credit Assessment Load Factors

Interface ID: CRA-I011	Source: BSCCo Ltd	Title: CALF	BSC Reference: CRA SD 5.0, CRA BPM 3.5, CRA 4.5, ERM, RETA SCH 4,B, 2.4.2, CR 12, CP756, P310
Mechanism: Manual, by email, letter or fax	Frequency: As necessary	Volumes: approximately 4 times per year	

The CRA shall receive, from time to time the Credit assessment Load Factors from the BSCCo Ltd. The information shall contain:
 	
Action Description
 	
Authentication Details
    Name
    Password
 	
     BM Unit Credit Assessment Load Factor Details
       BM Unit Id
Working Day Credit Assessment Load Factor ($WDCALF_i$)
Non-Working Day Credit Assessment Load Factor ($NWDCALF_i$)
Supplier Export Credit Assessment Load Factor ($SECALF_i$)
Effective From Date			

Physical Interface Details:

7.24 CRA-I020: (output, common) Operations Registration Report

This interface is defined in Section 4.

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

This interface is defined in Section 4.

7.26 CRA-I029: (input) Transmission Loss Factors

Interface ID: CRA-I029	Source: BSCCo Ltd	Title: Transmission Loss Factors	BSC Reference: SAA SD: 2.6, A1 SAA BPM: 3.6, CP756
Mechanism: Manual, by email, letter or fax	Frequency: As required	Volumes: Very low volume	

Interface Requirement:
 	
The CRA Service shall receive Transmission Loss data from BSCCo Ltd from time to time.
 	
The Transmission Loss data shall contain the following details:
 	
Authentication Details
     Name
     Password
 	
Transmission Loss Details
     Proportion of Losses (alpha)
     Effective From Date
 	
     BM Unit Transmission Loss Details
          BM Unit ID
          Transmission Loss Factor[16]
          Effective from Date
          Effective to Date

---

[16] Indented to show that there may be more than one TLF for a BSC Year

7.27   CRA-I032: (output) CRA Performance Reports

This interface is defined in the CRA URS as a functional requirement rather than an interface requirement. The reference in the CRA URS is CRA-F027.

7.28   CRA-I034: (input) Flexible Reporting Request

Interface ID: CRA-I034	Source: BSCCo Ltd	Title: Flexible Reporting Request	BSC Reference: CR 53, CP756
Mechanism: Manual, by email, letter or fax	Frequency:	Volumes:	

Interface Requirement:

The CRA shall receive authorisations from BSCCo Ltd. to start or stop sending copies of a BSC Party report to another BSC Party.
 	
Requesting BSC Party Details
    BSC Party Id
    BSC Party type
 	
   Report Details
      Report Type
    BSC Party Id
    BSC Party type
    Start/Stop Flag

Physical Interface Details:
The flow may contain requests from one or more BSC Parties, and each request may cover a number of report types/BSC Parties.

7.29   CRA-I035: (output) CRA BSC Section D Charging Data

Interface ID:	User:	Title:	BSC Reference:
CRA-I035	BSCCo Ltd	CRA BSC Section D Charging Data	CR 65, CN160, P100
Mechanism:	**Frequency:**	**Volumes:**	
Electronic data file transfer	Monthly		

Interface Requirement:

The system shall, on the 15th working day of each month, collect information required for charging BSC parties under Section D of the Code and send this to BSCCo Ltd.

The information included shall be:

Month
> Participant Id
> Participant Name
> Count of CVA Metering Systems
> Count of CVA BM Units
> Count of CVA Exempt Export BM Units
> Count of SVA Base BM Units
> Count of SVA additional BM Units
> Count of SVA Replacement Base BM Units
> Count of SVA Replacement additional BM Units
> Count of SVA Exempt Export BM Units

Each month the information will be produced for both the previous calendar month and the month before that. Data used shall be the latest available data from Interim Run and Initial Run only.

Physical Interface Details:

7.30   CRA-I042: (input) Receive Market Index Data Provider Registration Data

Interface ID:	Source:	Title:	BSC Reference:
CRA-I042	MIDP	Receive Market Index Data Provider Registration Data	P78
Mechanism:	**Frequency:**	**Volumes:**	
Manual	As Necessary	Low	

Interface Requirement:

Both initial registration, and updates to details, of a Market Index Data Provider, will be done by BSCCo Ltd.

The CRA shall receive Market Index Data Provider Details including the following:

Action Description

Market Index Data Provider Details
> Market Index Data Provider Name
> Market Index Data Provider Identifier
> Provider Effective From Settlement Date

Interface ID: CRA-I042	Source: MIDP	Title: Receive Market Index Data Provider Registration Data	BSC Reference: P78
Mechanism: Manual	Frequency: As Necessary	Volumes: Low	
Provider Effective To Settlement Date Contact Details <u>Name</u> <u>Address</u> <u>Telephone No</u> <u>Fax No</u> <u>e-mail Address</u>			
Physical Interface Details:			

7.31 CRA-I043: (input) Receive Exempt Export Registration Data

Interface ID: CRA-I043	Source: BSCCo Ltd	Title: Receive Exempt Export Registration Data	BSC Reference: P100
Mechanism: Manual, by email, letter or fax	Frequency: As necessary	Volumes: Low	

CRA shall receive the Exempt Export registration details for a BM Unit from BSCCo Ltd via a manual interface.
 	
The flow shall include the following:
 	
<u>BM Unit Details</u>
BSC Party Id
BM Unit Id
 	
    <u>Exempt Export Registration</u>
    Effective From Settlement Date
Or,
 	
    <u>Exempt Export De-Registration</u>
    Effective To Settlement Date			

Physical Interface Details:			

7.32   CRA-I044: (input) Withdrawals Checklist Request

Interface ID: **CRA-I044**	Source: BSCCo Ltd	Title: Withdrawals Checklist Request	BSC Reference: CP974
Mechanism: Manual, by email or fax	Frequency: Ad hoc	Volumes: Low	

The CRA shall receive a request for the Withdrawals Checklist from BSCCo Ltd on an ad-hoc basis. The request shall contain the following information:

> BSC Party / BSC Party Agent Name, and / or BSC Party / BSC Party Agent Id
> Reason for request
> Withdrawal Date (optional)

Notes:

1. Valid reasons for requesting the Withdrawals Checklist shall be defined as (not exclusively):
   - Information
   - Final Compliance
2. The Withdrawal Date shall optionally be included in a request, as an indication of when the 'Final Compliance' report should be run. If included, the CRA shall run the 'Final Compliance' report at 5pm, two Working Days prior to the Withdrawal Date. In this case, there is no need for the BSCCo to submit a specific request for the 'Final Compliance' report, but on the morning of the day that the report is due, the BSCCo shall confirm that the report is required.

Physical Interface Details:

7.33   CRA-I047: (output) Withdrawals Checklist

Interface ID: CRA-I047	User: BSCCo Ltd	Title: Withdrawals Checklist	BSC Reference: CP974
Mechanism: Manual, by email or fax	Frequency: On request	Volumes: Low	

The CRA shall issue a Withdrawals Checklist on receipt of a request from BSCCo Ltd (via Interface Requirement CRA-I044). The report shall contain the following data:

Report Date
Reason for Request

Registration Details
    Participation capacities registered
        BSC Party / BSC Party Agent Name
        BSC Party / BSC Party Agent Id
        Market Role Code(s)
        Effective From Date
        Effective To Date
    BM Units registered
        BM Unit ID
        Effective From Date
        Final Effective To Date
    Metering Systems registered
        MSID
        Effective From Date
        Final Effective To Date
    Communication Lines
        High-grade or low-grade line
        Own or shared line

> FTP accounts/ Encryption keys to be terminated.
> Access to BSC Central Systems terminated effective from
> Report non deliveries set up for BSC Party/ BSC Party Agent
> Flow Type
> Effective From Date
> Effective To Date
>
> Trading Details
> Last Day of Trading
> Payment date of the RF run for the Last Day of Trading (if known)
> Settlement Details
> As received via Interface Requirement CRA-I046
> Authorisation and Notification Details
> As received via Interface Requirement CRA-I045

Physical Interface Details:

7.34   ECVAA-I017: (output) ECVAA Performance Report

Interface ID: ECVAA-I017	User: BSCCo Ltd	Title: ECVAA Performance Report	BSC Reference: ECVAA SD: B ECVAA IRR: E6 CR 12, CP519
Mechanism: Manual, probably in whole or in part produced using a report-formatting tool.	Frequency: Monthly	Volumes:	

Interface Requirement:

The ECVAA Service shall issue ECVAA Performance Reports once a month to BSCCo Ltd.

- Percentage of valid new or updated registration data incorporated in ECVAA systems within 1 day of receipt
- Percentage of valid new or updated credit limit data incorporated in ECVAA systems within 1 day of receipt
- Percentage of Energy Contract Volume Authorisation requests processed within 1 day of receipt
- Percentage of Energy Contract Volume Authorisation termination requests processed within 1 day of receipt
- Percentage of Metered Volume Reallocation Authorisation requests processed within 1 day of receipt
- Percentage of requests to add additional BM Unit Subsidiaries to an existing Metered Volume Reallocation Authorisation processed within 1 day of receipt
- Percentage of Metered Volume Reallocation Authorisation termination requests processed within 1 day of receipt
- Percentage of Energy Contract Volume Notifications processed within 15 minutes of receipt
- Percentage of valid Energy Contract Volume Notifications aggregated for Settlement Day (SD) and Total Energy Contract Volumes calculated and transmitted to SAA by 12:00 on SD + 2
- Percentage of Metered Volume Reallocation Notifications processed within 15 minutes of receipt
- Percentage of Metered Volume Reallocation Notifications for SD transmitted to SAA by 12:00 on SD + 2.
- Percentage of Half Hourly Credit Check Processes completed within 15 minutes of the Submission Deadline (the notification deadline for the purposes of submitting ECVNs and MVRNs for each Settlement Period as defined in Annex X-1).
- Percentage of Credit Cover Minimum Eligible Amount Requests processed by the first Working Day after the expiry of the Waiting Period or the date of receipt of the Minimum Eligible Amount Rule Confirmation from BSCCo Ltd, whichever is the later (see ECVAA-F011: Process Credit Cover Minimum Eligible Amount Request).

7.35 ECVAA-I021: (output) Credit Limit Warning

This interface is defined in Part 1 of the Interface Definition and Design.

7.36 ECVAA-I023: (output) ECVAA BSC Section D Charging Data

Interface ID:	User:	Title:	BSC Reference:
ECVAA-I023	BSCCo Ltd	ECVAA BSC Section D Charging Data	CR 65, CN160
Mechanism:	**Frequency:**	**Volumes:**	
Electronic data file transfer	Monthly		

Interface Requirement:

The system shall, on the 21st calendar day of each month, collect information required for charging BSC parties under Section D of the Code and send this to BSCCo Ltd.

The information included shall be:

Month
      Participant Id
      Participant Name
      Gross Contract Volume

where Gross Contract Volume is

$$\Sigma_{zabj} \mid ECQ_{zabj} \mid + \Sigma_{zabj} \mid ECQ_{zbaj} \mid + \Sigma_{zaij} \mid QMFR_{zaij} \mid + \Sigma_{zbij} \mid QMFR_{zbij} \mid$$

Each month the information will be produced for both the previous calendar month and the month before that. Data used shall be the latest available data from Interim Run and Initial Run only.

Physical Interface Details:

7.37   ECVAA-I026: (output) Minimum Eligible Amount Request

Interface ID:: ECVAA-I026	User: BSCCo Ltd	Title: Minimum Eligible Amount Request	BSC Reference: CP519, CP1313
Mechanism: Manual	Frequency: Ad hoc, as a result of receipt of Credit Cover Minimum Eligible Amount Requests	Volumes: Low	
Interface Requirement: The ECVAA shall issue Minimum Eligible Amount Requests to BSCCo Ltd as a result of the receipt of Credit Cover Minimum Eligible Amount Requests from a BSC Party which is in Section H Default. The Minimum Eligible Amount Request data shall comprise: BSC Party ID Minimum Eligible Amount Request Date Note: the Minimum Eligible Amount Request Date is the date of receipt of the Credit Cover Minimum Eligible Amount Request by the ECVAA.			

7.38   ECVAA-I027: (input) Notification of BSC Parties in Section H Default

Interface ID:: ECVAA-I027	Source: BSCCo Ltd	Title: Notification of BSC Parties in Section H Default	BSC Reference: CP1313
Mechanism: Manual	Frequency: Ad hoc, in response to a change in the list	Volumes: Low	
Interface Requirement: The ECVAA shall receive from BSCCo Ltd a list of all BSC Party Ids that are currently in Section H Default.			

7.39   ECVAA-I032: (input) Credit Assessment Price

Interface ID:: ECVAA-I032	Source: BSCCo Ltd	Title: Credit Assessment Price	BSC Reference: P2
Mechanism: Manual	**Frequency:** As required	**Volumes:** Low	

Interface Requirement:

The ECVAA Service shall receive the Credit Assessment Price from BSCCo from time to time.

The Credit Assessment Price shall comprise:

Credit Assessment Price:

      Credit Assessment Price (£/MWh)
      Effective from date

Notes:

      The effective from date shall be the settlement date upon which the price is to take effect, and shall be no earlier than the day after the price is received by ECVAA.

      The Credit Assessment Price shall be in the range 0.00 to 999.99, and shall be held to two decimal places.

Physical Interface Details:

7.40   ECVAA-I040: (output) Issue Notification System Status Report

Interface ID:: ECVAA-I040	Source: BSCCo Ltd	Title: Issue Notification System Status Report	BSC Reference: CP739
Mechanism: Manual, by email, fax or telephone call.	**Frequency:** As required	**Volumes:** Low	

Interface Requirement:

The ECVAA Service shall issue a status report to BSCCo Ltd. as soon as possible after:

- The start of an ECVAA System Failure or ECVAA System Withdrawal;
- A change in the Notification Agents affected by an existing ECVAA System Failure or ECVAA System Withdrawal; or
- The end of an ECVAA System Failure or ECVAA System Withdrawal.

The notification shall contain

      Incident Type (ECVAA System Failure or ECVAA System Withdrawal).
      Incident Status (Start, End or Change)
      Date and Time (GMT) of Incident Status
      Affected Agents (list of affected Notification Agents or ALL).

Physical Interface Details:

7.41   ECVAA-I041: Receive Party Credit Default Authorisation Details

Interface ID: ECVAA-I041	Source: BSCCo Ltd	Title: Receive Party Credit Default Authorisation Details	BSC Reference: CP975
Mechanism: Manual, by email, letter or fax	Frequency: As necessary	Volumes: approximately 10 times per year	

The ECVAA shall receive, from time to time the BSC Party Credit Default Authorisation Flag from the BSCCo Ltd. The information shall contain:

Authentication Details
Name
Password

BSC Party Credit Default Authorisation Details
BSC Party Id
Credit Default Authorisation Flag
Effective From Date

Physical Interface Details:

7.42   SAA-I010: (input) BSCCo Ltd Cost Data (Redundant)

Interface ID: SAA-I010	Source: BSCCo Ltd	Title: BSCCo Ltd Cost Data	BSC Reference: SAA SD: 2.6 SAA BPM: 3.16, 4.12, CP527, CP1223
Mechanism: Electronic data file transfer	Frequency: Monthly/ Annual	Volumes:	

Interface Requirement:

The SAA Service shall receive forecast BSCCo Ltd Costs monthly and actual BSCCo Ltd Costs annually from BSCCo Ltd.

The BSCCo Ltd Cost data shall include:

Forecast Costs:
  Settlement Date
  BSCCo Ltd Forecast Cost (£)

Total Actual Costs:
  Year
  BSCCo Ltd Actual Cost (£)

This interface is not in use.

7.43   SAA-I012: (input, part 1) Dispute Notification

This interface is defined in Part 1 of the Interface Definition and Design.

7.44   SAA-I014 (output) Settlement Reports

[P369]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~~NETSO 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:	

The following information is provided:

Settlement Day 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

For each BSC Party:

BSC Party Information
BSC Party Id
Aggregate Party Day Charges (defined in IDD Part 1 section 8.4.1)

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)

<u>BM Unit Period Bid-Offer Information:</u>
Bid-Offer Pair Number (n)
Bid Price (PB^n_{ij}) (£)
Offer Price (PO^n_{ij}) (£)

     <u>BM Unit Period Bid-Offer Spot Points ($^fQBO^n_{ij}$):</u>
Time from
Bid-Offer Value from
Time to
Bid-Offer Value to

<u>Maximum Export Limit Information:</u>
Time From
Level From (MW)
Time to
Level To (MW)

<u>Maximum Import Limit Information:</u>
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

7.45   SAA-I016: (output, part 1) Settlement Calendar

This interface is defined in Part 1 of the Interface Definition and Design.

7.46   SAA-I018: (output, part 1) Dispute Report

This interface is defined in Part 1 of the Interface Definition and Design.

7.47   SAA-I019: (output) BSC Party Performance Reports (Redundant)

Interface ID: SAA-I019	User: BSCCo Ltd	Title: BSC Party Performance Reports	BSC Reference: SAA IRR: SAA6, CP1222
Mechanism: Electronic data file transfer	Frequency: Monthly	Volumes:	

Interface Requirement:

The SAA Service shall issue BSC Party Performance Reports once a month to BSCCo Ltd.
 	
The BSC Party Performance Reports shall include:
 	
     BSC Party rankings by number/volume of trades
     BSC Party rankings by imbalance volumes
 	
Ranking will be as follows:
 	
     Ranking by Number of Trades, then by Volume (ie if two parties have the same number of trades, then their relative ranking will be established using volume of trades).
 	
     Ranking by Energy Imbalance, then by Information Imbalance (ie if two parties have the same energy imbalance, then their relative ranking will be established using information imbalance). Note that the Imbalance Volumes flow for this report contains only a single value for imbalance volume.
 	
This interface is not in use.

7.48   SAA-I020: (output) SAA Performance Reports

Interface ID: SAA-I020	User: BSCCo Ltd	Title: SAA Performance Reports	BSC Reference: SAA SD: B, CP527, P78
Mechanism: Manual, probably in whole or in part produced using a report-formatting tool.	Frequency: Monthly	Volumes:	

<table>
<tr><td colspan="4"><h3 align="center">Interface Requirement:</h3>

The SAA Service shall issue SAA Performance Reports once a month to BSCCo Ltd.

The SAA Performance Reports shall include:

Settlement Run Reporting:
      Month Ending Date
      Settlement Date
      Report Run Type
      Report Recipient
      Expected Settlement Report Date
      Settlement Run Date/Time
      Actual Settlement Report Date/Time

Settlement Calendar Publishing:
      Settlement Calendar Year
      Expected Publish Date
      Actual Publish Date

BM Unit Credit Assessment Import Capability Reporting:
      Month Ending Date
      Reason (Month End/CALF Change)
      Report Recipient
      Expected Report Date
      Actual Report Date

Help Desk Reporting:

      Call Severity Level
      Response Time

 Market Index Data Provider Performance:
      Month Ending Date
        Market Index Data Provider Identifier
          Number of Settlement Days for which Market Index Data was not provided in time
            for the Initial Interim Settlement Run
          Number of Settlement Periods where individual Liquidity Threshold required
            default by SAA
          Number of Settlement Periods where zeroes were used in the Initial Interim
            Settlement Calculation
</td></tr>
</table>

7.49   SAA-I023: (input) System Parameters

Interface ID:: SAA-I023	Status: Mandatory	Title: System Parameters	BSC Reference: CR 003, P10, P18A, CP632, P194, P217, P305
Mechanism: Manual	Frequency: Ad-hoc	Volumes: Low – typically one or two per month	

Interface Requirement:

The SAA Service shall receive the following system parameters from the BSCCo Ltd via a manual interface, expected to be either a fax or telephone call:

      Effective from Settlement Date
      Effective from Settlement Period (1-50)
      Effective to Settlement Date
      Effective to Settlement Period (1-50)
      Information Imbalance Price 1
      Information Imbalance Price 2
      Arbitrage Flag
      NRL_j (Notional Reserve Limit) (MW)
      $DMAT_d$ (De Minimis Acceptance Threshold) (MWh)
      $CADL_d$ (Continuous Acceptance Duration Limit (minutes)
      PAR_d (Price Average Reference Volume) (MWh) (0-9,999,999,999)
      $RPAR_d$ (Replacement Price Average Reference Volume) (MWh)
      VoLL (Value of Lost Load)

Physical Interface Details:

The BSCCo Ltd system parameter values shall continue to apply to all settlement periods, until a change to a parameter is made.

Issues:

7.50   SAA-I025: (output) SAA BSC Section D Charging Data

Interface ID: SAA-I025	User: BSCCo Ltd	Title: SAA BSC Section D Charging Data	BSC Reference: CR 65, CN160
Mechanism: Electronic data file transfer	Frequency: Monthly	Volumes:	

Interface Requirement:

The system shall, on the 15th working day of each month, collect information required for charging BSC parties under Section D of the Code and send this to BSCCo Ltd.

The information included shall be:

Month
      Participant Id
      Participant Name
          Production/Consumption Flag
          Volume

where Volume is Credited Energy Volume for the Production/Consumption Energy Account belonging to the BSC Party.

Each month the information will be produced for both the previous calendar month and the month before that. Data used shall be the latest available data from Interim Run and Initial Run only.

Physical Interface Details:

7.51   SAA-I027: (output) Report pre-settlement run validation failure

Interface ID: SAA-I027	Source: SAA	Title: Report pre-settlement run validation failure	BSC Reference: CP639, CP1222
Mechanism: Manual	**Frequency:** Ad-hoc	**Volumes:** As required.	
Interface Requirement: The SAA shall send to BSCCo details of pre-settlement run validation failures. The content of the report shall include Settlement Date Settlement Run Type Failure Reasons			
Physical Interface Details:			
This interface is likely to take the form of a fax or an e-mail or a telephone call. Failure Reasons will be various.			
Issues:			

7.52   SAA-I028: (input) Receive settlement run decision

Interface ID: SAA-I028	Source: BSCCo	Title: Receive settlement run decision	BSC Reference: CP639
Mechanism: Manual	**Frequency:** In response to SAA-I027	**Volumes:** Low – typically one or two per month	
Interface Requirement: BSCCo shall send to the SAA a decision on whether a settlement run should continue if the SAA has reported pre-settlement run validation run failures (SAA-I027) for this run. Settlement Date Settlement Run Type Decision			
Physical Interface Details:			

Interface ID: SAA-I028	Source: BSCCo	Title: Receive settlement run decision	BSC Reference: CP639
This interface is likely to take the form of a fax or an e-mail or a telephone call. Failure Reasons will be various.			
Issues:			

7.53 SAA-I029: (input) Receive settlement run instructions

Interface ID: SAA-I029	Source: BSCCo	Title: Receive settlement run instructions	BSC Reference: CP639
Mechanism: Manual	**Frequency:** In response to SAA-I027	**Volumes:** Low – typically one or two per month	

Interface Requirement:
BSCCo shall send to the SAA instructions on how to progress a settlement run that the SAA has reported pre-settlement run validation run failures (SAA-I027) for.
 	
    Settlement Date
    Settlement Run Type
    Instructions			

Physical Interface Details:			
This interface is likely to take the form of a fax or an e-mail or a telephone call. Failure Reasons will be various.			
Issues:			

7.54   SAA-I031: (input) Receive Market Index Data Provider Thresholds

Interface ID: SAA-I031	Source: BSCCo	Title: Receive Market Index Data Provider Thresholds	BSC Reference: P78
Mechanism: Manual	Frequency: Ad-hoc	**Volumes:** This manual flow is expected to handle a maximum of 6 date ranges to be defined, for each DP, for each year. Each date range to have a maximum of 4 different Liquidity Thresholds.	

Interface Requirement:

The SAA shall receive Market Index Data Provider Liquidity Threshold data from BSCCo. The processing rules for this flow are described in SAA-F023.
 	
The flow shall include:
 	
    Market Index Data Provider Identifier
        MIDP Date Range
        Action Type
        Effective From Settlement Date
        Effective To Settlement Date
            MIDP Period Data
            Effective From Settlement Period (1-50)
            Effective To Settlement Period (1-50)
            Liquidity Threshold
 	
Action Type describes the type of operation to be performed in relation to the data supplied in the other fields. It can be one of:
• Insert;
• Update;
• Delete.

Physical Interface Details:

Issues:

7.55   SAA-I032: (output) Report Market Index Data Provider Thresholds

Interface ID: SAA-I032	User: BSCCo	Title: Report Market Index Data Provider Thresholds	BSC Reference: P78
Mechanism: Manual	Frequency: In response to SAA-I031, as described in SAA-F023	Volumes: This manual flow is expected to handle a maximum of 6 date ranges to be defined, for each DP, for each year. Each date range to have a maximum of 4 different Liquidity Thresholds.	

Interface Requirement:

The SAA shall report Market Index Data Provider Liquidity Threshold to BSCCo.
 	
The flow shall include:
 	
    Market Index Data Provider Identifier
        <u>MIDP Date Range</u>
        Effective From Settlement Date
        Effective To Settlement Date
        <u>MIDP Period Data</u>
        Effective From Settlement Period (1-50)
        Effective To Settlement Period (1-50)
        Liquidity Threshold

Physical Interface Details:
Issues:

7.56   [P369]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 Instruction	Volumes: Low	

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~~NETSO (via SAA-I033) where the request is marked as an Emergency Instruction.

Non Functional Requirement:

Issues:

7.57 SAA-I035: (input) Receive Instruction for Data Change

Interface ID:	Source:	Title:	BSC Reference:
SAA-I035	BSCCo	Receive Instruction for Data Change	CP995, CP1283
Mechanism:	**Frequency:**	**Volumes:**	
Manual	In response to SAA-I034	Low	

Interface Requirement:

In response to SAA-I034 for an Emergency Instruction, BSCCo shall send to the SAA instructions for a data change.

Non Functional Requirement:

Issues:

7.58 [P369]SAA-I036: (output) Report Confirmation of Data Change

Interface ID:	User:	Title:	BSC Reference:
SAA-I036	BSCCo, ~~System Operator~~the NETSO	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~~NETSO 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:

7.59 SAA- I038: (input) Receive Excluded Emergency Acceptance Pricing Information

Interface ID:	Source:	Title:	BSC Reference:
SAA-I038	BSCCo	Receive Excluded Emergency Acceptance Pricing Information	P172
Mechanism:	**Frequency:**	**Volumes:**	
Manual	Ad-hoc	Low	

Interface Requirement:
 	
 The BSCCo shall send to the SAA recalculated Energy Imbalance Prices resulting from Excluded Emergency Acceptances prior to each subsequent Settlement Run.
 	
 The following data items will be included in the communication:
 	
     Settlement Day
     Settlement Period
     Buy Price
     Sell Price
     Settlement Run Type that was used to calculate the new Energy Imbalance Prices.			

Non Functional Requirement:			
Issues:			

7.60 SAA-I039: (output) Send Excluded Emergency Acceptance Dry Run Results

Interface ID:	User:	Title:	BSC Reference:
SAA-I039	SAA	Send Excluded Emergency Acceptance Dry Run Results	P172
Mechanism:	**Frequency:**	**Volumes:**	
Manual	Ad-hoc	Low	
Interface Requirement: The SAA shall, as a result of any additional 'dry run' carried out in response to Excluded Emergency Acceptances received, send to the BSCCo confirmation of whether SAA has matched the prices within the defined threshold. The confirmation will be in the form of a Y/N flag.			
Non Functional Requirement:			
Issues:			

7.61　　SAA- I040: (input) Receive Authorisation To Proceed With Full Settlement Run

Interface ID:	Source:	Title:	BSC Reference:
SAA-I040	BSCCo	Receive Authorisation To Proceed With Full Settlement Run	P172
Mechanism:	**Frequency:**	**Volumes:**	
Manual	Ad-hoc	Low	
Interface Requirement: The BSCCo shall send to the SAA authorisation to proceed with the full Settlement Run.			
Non Functional Requirement:			
Issues:			

7.62　　ECVAA-I049: (input) Request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default

Interface ID:	Source:	Title:	BSC Reference:
ECVAA-I049	BSCCo Ltd	Request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default	CP1140 CP1169
Mechanism:	**Frequency:**	**Volumes:**	
Manual, by email.	As required	Low	
Interface Requirement: The ECVAA shall receive, from time to time request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default, which shall contain:			
1. Party ID 2. Removal effective from Date 3. Removal effective from Period 4. Copy of the BSC Panel resolution 5. Any notes pertinent to this removal			
Physical Interface Details:			

7.63 ECVAA-I050: (output) Remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default Feedback.

Interface ID::	User:	Title:	BSC Reference:
ECVAA-I050	BSCCo Ltd	Remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default feedback	CP1140 CP1169
Mechanism:	**Frequency:**	**Volumes:**	
Manual, by email.	As required	Low	

Interface Requirement:

The ECVAA shall issue feedback to BSCCo Ltd following the <u>receipt of a request to remove all</u> ECVNs and MVRNs for a Party in Section H default, which shall contain:

1. Party ID
2. Removal effective from Date
3. Removal effective from Period
4. Any notes pertinent to this removal

Physical Interface Details:

The ECVAA-I050 shall be used on the following occasions:

Where the dis-application is to commence from Period 1:

1. To confirm receipt of the ECVAA-I049.
2. To confirm that all Notifications have been removed and all Authorisations terminated for the defaulting Party,
3. To confirm that the Credit Check has been restarted.
4. To confirm that the final check has been completed.

Where the dis-application is to commence from any period other than Period 1:

1. To confirm receipt of the ECVAA-I049.
2. To confirm that all Notifications have been removed from the next settlement day and all Authorisations terminated for the defaulting Party,
3. To confirm that the Credit Check has been restarted.
4. To confirm that the Volume Nullification process is completed. An update on the progress of each Volume Notification Nullification will be sent every working day if this process takes more than one working day.
5. To confirm that the final check has been completed.

Note: additional informal communications may occur between the ECVAA and BSCCo by email and/or telephone as individual circumstances dictate.

7.64   BMRA-I033: (Input) STOR Availability Window

Interface ID::	Source:	Title:	BSC Reference:
BMRA-I033	BSCCo Ltd	STOR Availability Window	P305
Mechanism:	**Frequency:**	**Volumes:**	
Manual, by email.	As required	Low	

Interface Requirement:

The BSCCo will provide the BMRA and SAA with details of STOR Availability Windows.

The following details will be provided:

> Document ID
> Season Year
> Season Number
> STOR Availability Dates
> Weekday Start Time
> Weekday End Time
> Non-weekday Start Time
> Non-weekday End Time

Physical Interface Details:

BSCCo will send details in CSV format.

7.65   SAA-I046: (Input) STOR Availability Window

SAA receives input file from BSCCo using same format as BMRA-I033.

7.67   [P369]SAA-I047 (input) BSCCo Calculated SBR Imbalance Price

Interface ID:	Source:	Title:		BSC Reference:
SAA-I047	BSCCo	BSCCo Calculated SBR Imbalance Price		P323
Mechanism:	**Frequency:**	**Volumes:**		
Manual	As required	Low		

Interface Requirement:

Where the BSCCo has been notified by the ~~Transmission Company~~NETSO of any BOAs that are the subject of an SBR Notice, the BSCCo shall send to the SAA the calculated Energy Imbalance Price that is expected to reflect the value of the SBR Actions taken.

The following data items will be included in the communication:
- Settlement Date(s)
- Settlement Period(s)
- BSCCo calculated price(s)

Non Functional Requirement:

Issues:

7.68   SAA-I048 (output) SBR Imbalance Price Discrepancy Notice

Interface ID:	Source:	Title:		BSC Reference:
SAA-I048	SAA	SBR Imbalance Price Discrepancy Notice		P323
Mechanism:	**Frequency:**	**Volumes:**		
Manual	As required	Low		

Interface Requirement:

Where the SAA has received from the BSCCo the calculated SBR energy imbalance price, the SAA shall send to the BSCCo any discrepancy between the calculated SBR energy imbalance price and the System Buy Price(s) produced by Central Systems for the relevant settlement period(s). And where there is no discrepancy SAA shall notify BSCCo there is no discrepancy.

The following data items will be included in the communication:
- Settlement Date(s)
- Settlement Period(s)
- Discrepancy (Y/N)
- SAA SBP
- BSCCo SBP
- Difference

Non Functional Requirement:

Issues:

8   Interfaces From and To Stage 2

The physical formats of these files are defined in the SVA Data Catalogue and in the spreadsheet attached to this document. The definition in the SVA Data Catalogue is the master.

8.1   CDCA-I043: (output) GSP Group Take to SVAA

Interface ID: CDCA-I043	User: SVAA	Title: GSP Group Take to SVAA	BSC Reference: CDCA SD 22, 23.1, A, B CDCA BPM 4.13, CP593
Mechanism: Electronic data file transfer, Pool Transfer File Format	**Frequency:** Daily, for those Settlement Dates for which a CDCA run (excluding any Interim Initial runs for Settlement Dates prior to the P253 effective date) has taken place that day.	**Volumes:**	

Interface Requirement:
CDCA provides aggregated meter flow volumes for the GSP Groups to SVAA. The physical form of this interface is the existing GSP Group Take file sent from the SSA system to ISRA. One file per GSP Group, containing GSP Group Take Volumes produced by a CDCA Run (excluding any Interim Initial runs for Settlement Dates prior to the P253 effective date) for each Settlement Period of a Settlement Date. There are fields in the existing flow which are meaningless under the BSC, for which dummy or null values are provided. These fields are called Fillers in the physical flow.

Physical Interface Details:
See the physical flow for details, in the Stage 2 tab of the IDD Part 2 spreadsheet.

ZHD Header information:

File Identifier	same as unique Id part of file name
File Type	='P0012001'
From Stage2 Role Code	='S'
From Stage2 Participant Id	= Id allocated to CDCA by Stage 2
To Stage2 Role Code	='G'
To Stage2 Participant Id	='CAPG"
Creation Time	
Sending Application Id	=NULL
Receiving Application Id	=NULL
Broadcast	=NULL
Test Data Flag	indicates whether this is live data or test data

8.2   CRA-I004: Agent Details

This interface is defined in Section 4. (SVAA registers itself with CRA.)

8.3   SAA-I007: (input) BM Unit Allocated Demand Volume

Interface ID: SAA-I007	Source: SVAA	Title: Allocated Supplier Volumes	BSC Reference: RETA SCH: 4, B, 2.4.1 SAA SD: 2.5, A1 SAA BPM: 3.4, 4.42, CP632
Mechanism: Electronic data file transfer, Pool Transfer File Format	Frequency: Daily, for each run the SVAA has done that day.	Volumes:	

Interface Requirement:

The SAA Service shall receive BM Unit Allocated Demand Volume once a day from the SVAA.

The BM Unit Allocated Demand Volume data shall include:

    Supplier ID
    GSP Group ID
    BM Unit ID
    CDCA Settlement Date
    CDCA Run Number
    SVAA SSR Settlement Date
    SVAA SSR Run Number
    Settlement Period (1-50)
    Energy Volume Reading (MWh) (signed, consumption positive))

Physical Interface Details:
See the physical flow for details, in the Stage 2 tab of the IDD Part 2 spreadsheet.

ZHD Header information:

File Identifier	same as unique Id part of file name
File Type	='P0182001'
From Stage2 Role Code	='G'
From Stage2 Participant Id	='CAPG"
To Stage2 Role Code	='F'
To Stage2 Participant Id	= Id allocated to CDCA by Stage 2
Creation Time	
Sending Application Id	=NULL
Receiving Application Id	=NULL
Broadcast	=NULL
Test Data Flag	indicates whether this is live data or test data

8.4   SAA-I016: (output, part 1) Settlement Calendar

This interface is defined in Part 1 of the Interface Definition and Design.

8.5   SAA-I017: (output, common) SAA Data Exception Report

This interface is defined in Part 1 of the Interface Definition and Design.

8.6   CRA-I015: (output) BM Unit Registration Data

This interface is defined in Section 4 (sub-flow 2 in the physical flow definition is specifically for the Stage 2 MDDA).

Physical Interface Details:	
See the physical flow for details, in the Stage 2 tab of the IDD Part 2 spreadsheet.	
ZHD Header information:	
File Identifier	same as unique Id part of file name
File Type	='P0181001'
From Stage2 Role Code	='Z'
From Stage2 Participant Id	= Id allocated to CDCA by Stage 2
To Stage2 Role Code	='U'
To Stage2 Participant Id	='CAPG"
Creation Time	
Sending Application Id	=NULL
Receiving Application Id	=NULL
Broadcast	=NULL
Test Data Flag	indicates whether this is live data or test data

8.7   [P369]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~~NETSO	Volumes: Low	

<table>
<tr><td colspan="4">Interface Requirement:

The BMRA provides details of Demand Control Instructions to the SVAA as and when they are made available by the ~~System Operator~~NETSO via BMRA-I002

The Demand Control Instruction data shall include:

    Demand Control Event ID
    Instruction Sequence Number
    Demand Control Event flag
    Start Date and Time
    End Date and Time
    Volume
    SO Flag
    Amendment Flag</td></tr>
<tr><td colspan="4">Physical Interface Details:
See the physical flow for details, in the Stage 2 tab of the IDD Part 2 spreadsheet.</td></tr>
</table>

8.8   SAA-I045: (input) BM Unit Allocated Demand Disconnection Volume

Interface ID: SAA-I045	Source: SVAA	Title: Allocated Supplier Volumes	BSC Reference: P305
Mechanism: Electronic data file transfer, Pool Transfer File Format	Frequency: For SF run and all subsequent runs the SVAA has done that day where Demand Control was required	Volumes: Low	

<table>
<tr><td colspan="4" align="center">Interface Requirement:</td></tr>
<tr><td colspan="4">

The SAA Service shall receive from the SVAA, BM Unit Allocated Demand Disconnection Volume for each Settlement Day affected by a Demand Control event.

The BM Unit Allocated Demand Disconnection Volume data shall include:

       Supplier ID
       GSP Group ID
       BM Unit ID
       CDCA Settlement Date
       CDCA Run Number
       SVAA SSR Settlement Date
       SVAA SSR Run Number
       Settlement Period (1-50)
       Disconnected Energy Volume Reading (MWh)   (+ve = consumption)

</td></tr>
</table>

Physical Interface Details:
See the physical flow for details, in the Stage 2 tab of the IDD Part 2 spreadsheet.

ZHD Header information:

File Identifier	same as unique Id part of file name
File Type	='P0237'
From Stage2 Role Code	='G'
From Stage2 Participant Id	='CAPG"
To Stage2 Role Code	='F'
To Stage2 Participant Id	= Id allocated to CDCA by Stage 2
Creation Time	
Sending Application Id	=NULL
Receiving Application Id	=NULL
Broadcast	=NULL
Test Data Flag	indicates whether this is live data or test data

9   Interfaces Within BSC Central Systems

9.1   BMRA-I001 (input): Registration Data

See CRA-I013 and CRA-I015 in section 4.

9.2   [P369]BMRA-I007 (output) SAA/ECVAA Balancing Mechanism Data

Interface IDs: From: BMRA-I007 To: SAA-I003 To: ECVAA-I048	User: SAA, ECVAA	SAA/ECVAA Balancing Mechanism Data	BSC Reference: RETA SCH: 4, B, 2.4.1 SAA SD: 2.1, A1, ITT Query Response Ref R-031 SAA BPM: 3.3, 4.3, 4.4, 4.17, 4.18, P71, P140, P217, P305
Mechanism: BMRA stores the files it receives from the ~~SO~~NETSO in a directory readable by SAA and ECVAA.	**Frequency:** As required for SAA and ECVAA.	**Volumes:** Between 1000 - 5000 BM units*. In each settlement period, at least 1 FPN data and 1 Bid-Offer Acceptance per BM unit. At most 10 Bid-Offer Pairs per BM unit (estimated 1000) that receives bids and offers.	

Interface Requirement:

The BMRA Service shall copy all Balancing Mechanism data that was received from the ~~SO~~NETSO on settlement day N to a directory that is readable by SAA. The SAA shall load the data in time for the first (Interim) settlement run for settlement day N. . Physical Notification data shall additionally be copied to a directory readable by the ECVAA.

* N.B. Only Physical Notification data will be read by ECVAA.

Balancing mechanism data shall include all data listed in BMRA-I002 that was received from the ~~SO~~NETSO, i.e:

    Physical Notification (PN)
    Quiescent PN (QPN)
    Bid-Offer Data (BOD)
    Applicable Balancing Services Volume (QAS)
    Maximum Export Limit (MEL)
    Maximum Import Limit (MIL)
    Run Up Rates Export (RURE)
    Run Up Rates Import (RURI)
    Run Down Rates Export (RDRE)
    Run Down Rates Import (RDRI)
    Notice to Deviate from Zero (NDZ)
    Notice to Deliver Offers (NTO)
    Notice to Deliver Bids (NTB)
    Minimum Zero Time (MZT)
    Minimum Non-Zero Time (MNZT)
    Stable Export Limit (SEL)
    Stable Import Limit (SIL)
    Maximum Delivery Volume (MDV)
    Maximum Delivery Period (MDP)

For Settlement Dates prior to the P217 effective date this flow shall also include:

    Bid-Offer Acceptance Level (BOAL)

For Settlement Dates after and including the P217 effective date this flow shall also include:

    Bid-Offer Acceptance Level Flagged (BOALF)

For Settlement Dates after and including the P305 effective date this flow shall also include:
    Demand Control Instructions
    Loss of Load Probability and De-rated Margin Data
    STOR Availability Window

Interface IDs: From: BMRA-I007 To: SAA-I003 To: ECVAA-I048	User: SAA, ECVAA	SAA/ECVAA Balancing Mechanism Data	BSC Reference: RETA SCH: 4, B, 2.4.1 SAA SD: 2.1, A1, ITT Query Response Ref R-031 SAA BPM: 3.3, 4.3, 4.4, 4.17, 4.18, P71, P140, P217, P305
Physical Interface Details:			

9.3 BMRA-I010: (output, common) Data Exception Reports

This interface is defined in Part 1 of the Interface Definition and Design.

9.4 BMRA-I018: (input) Publish Credit Default Report

See ECVAA-I036 in this section.

9.5 CDCA-I002: (input) Registration Data

See CRA-I019 in this section.

9.6 CDCA-I016: (input) Information from TAA

Interface ID: CDCA-I016	Source: TAA	Title: Request for Metering System details	BSC Reference: TAA SD 3.2.3
Mechanism: Manual	**Frequency:** Quarterly	**Volumes:** 1	
Interface Requirement:			

The TAA shall request from the CDCA the following details for each Metering Systems identified by the BSCCo Ltd as being in the Sampled category: This information shall be used by the TAA to ensure that a fair sample is selected, and to ensure that any selection guidance given by the BSCCo Ltd can be followed.

- Relevant BSC Party

- Meter Operator Agent

- Metering Equipment technical details

- Applicable Code of Practice

- GSP and/or GSP Group

9.7   CDCA-I020: (input) Site Visit Inspection Report

Interface ID: CDCA-I020	Source: CDCA Site Visit Agent	Title: Site Visit Inspection Report	BSC Reference: CDCA SD 13.1- 13.7, CP753, CP756, P190
Mechanism: Manual, by email, letter or fax	Frequency: Ad hoc	Volumes: 50 per month	
Interface Requirement:			
On completion of the site inspection, the Site Visit Agent will provide a written report to CDCA detailing the outcome of the site inspection including, but not limited to meter readings.			
Physical Interface Details:			

9.8   CDCA-I027: (output) Aggregated Interconnector Meter Flow Volumes

Interface ID: From: CDCA-I027 To: SAA-I004	User: SAA	Title: Aggregated Interconnector Meter Flow Volumes	BSC Reference: CDCA SD 22, 23.1, A, B CDCA BPM 4.15, CP527
Mechanism: via shared database	Frequency: Daily	Volumes: Initially 96 (2 interconnectors * 48 readings). The number of interconnectors is expected to increase to 5 or 6.	
Interface Requirement:			
Aggregated meter flow volumes for the Interconnectors are sent to SAA, as follows for each Interconnector: Interconnector Identifier Settlement Date Settlement Period Estimate Indicator Date of aggregation Meter Volume CDCA Run Number Import/Export indicator (I/E) The Import/Export indicator indicates the direction of the energy flow: the Meter Volume is therefore unsigned.			
Physical Interface Details:			

9.9   CDCA-I028: (output) Aggregated BM Unit Meter Flow Volumes

Interface ID: From:CDCA-I028 To: SAA-I004	User: SAA	Title: Aggregated BM Unit Meter Flow Volumes	BSC Reference: CDCA SD 22, 23.1, A, B CDCA BPM 4.9, CP527
Mechanism: via shared database	Frequency: Daily	Volumes:	
Interface Requirement:			

Aggregated meter flow volumes for the BM Units are sent to SAA, as follows for each BM Unit:
 	
BM Unit Identifier
     Settlement Date
     Settlement Period
     Estimate Indicator
     Date of aggregation
     Meter Volume
     CDCA Run Number
     Import/Export indicator (I/E)
 	
The Import/Export indicator indicates the direction of the energy flow: the Meter Volume is therefore unsigned.			

Physical Interface Details:			

9.10   CDCA-I034:Settlement Calendar

This interface is defined in Part One as SAA-I016.

9.11   CDCA-I035: (input) Site Visit Report on Aggregation Rule Compliance

Interface ID: CDCA-I035	User: CDCA Site Visit Agent	Title: Site Visit Report on Aggregation Rule Compliance	BSC Reference: CDCA SD 22.4, CP756
Mechanism: Manual, by email, letter or fax	Frequency:	Volumes: Currently 12 GSP Groups in England & Wales	
Interface Requirement:			
A report from the site visit agent, after undertaking (where necessary) a site visit to verify the validity of the aggregation rules.			
Physical Interface Details:			

9.12   CDCA-I036: (output) GSP Group Take to SAA

Interface ID: From: CDCA-I036 To: SAA-I004	User: SAA	Title: GSP Group Take to SAA	BSC Reference: CDCA SD 22, 23.1, A, B CDCA BPM 4.13, CP527
Mechanism: via shared database	Frequency: Daily	Volumes: Currently 12 GSP Groups in England & Wales	

Interface Requirement:
 	
CDCA provides aggregated meter flow volumes for the GSP Groups to SAA, as follows for each GSP Group:
 	
GSP Group Id
    Settlement Date
    Settlement Period
    Estimate Indicator
    Date of aggregation
    Meter Volume
    CDCA Run Number
    Import/Export indicator (I/E)
 	
The Import/Export indicator indicates the direction of the energy flow: the Meter Volume is therefore unsigned.			

Physical Interface Details: 			

9.13   CDCA-I039: (output) Information to TAA

Interface ID: From: CDCA-I039 To: TAA	User: TAA	Title: Information to TAA.	BSC Reference: CDCA SD 11.6 BPM
Mechanism: Manual	Frequency: As required	Volumes: estimate 10 per day (0.2% of 5000)	
Interface Requirement: The CDCA carry out site inspections and liaise with the Technical Assurance Agent (TAA) as necessary. The CDCA sends the TAA the following Metering System details for all Metering Systems in the Sampled category. • Relevant BSC Party • Meter Operator Agent • Metering Equipment technical details • Applicable Code of Practice • GSP and/or GSP Group			
Physical Interface Details: 			

9.14 CDCA-I050: (input) Data Exception Reports

This interface is defined in Part One as SAA-I017.

9.15 CDCA-I066: (input) Demand Control Instructions to CDCA

See SAA-I043 in this section.

9.16 CDCA-I068: (output) Period BM Unit Demand Disconnection Volumes

Interface ID: From:CDCA-I068 To: SAA-I044	User: SAA	Title: Aggregated BM Unit Meter Flow Volumes	BSC Reference: CDCA SD 19, P305
Mechanism: via shared database	Frequency: As required	Volumes: Low	
Interface Requirement:			

Aggregated estimates of disconnected meter volumes for the BM Units are sent to SAA, as follows for each BM Unit:
 	
BM Unit Identifier
    Settlement Date
    Settlement Period
 	
    Disconnection Meter Volume			

Physical Interface Details:			

9.17 CRA-I010

This interface is redundant.

9.18 CRA-I013: (output, common) Issue Authentication Report

This interface is defined in Section 4.

9.19 CRA-I015: (output, common) BM Unit and Energy Account Registration Data

This interface is defined in Section 4.

9.20 CRA-I017 (output): Credit Assessment Capability

Interface ID:: From: CRA-I017 To: ECVAA-I001 To: SAA-I002	User: ECVAA, SAA	Title: Credit Assessment Capability	BSC Reference: SAA SD: 2.7, A1 SAA BPM: 3.1, CRA 7.2.2
Mechanism: Via shared database with SAA and electronic data file transfer to ECVAA	Frequency: Monthly or Ad- hoc	Volumes:	

Interface Requirement:

The CRA Service shall issue the Credit Assessment to the SAA and ECVAA Services from time to time. The report shall contain:

Credit Assessment Details
        BM Unit ID
        Working Day BM Unit Credit Assessment Export Capability (WDBMCAEC)
        Non- Working Day BM Unit Credit Assessment Export Capability (NWDBMCAEC)
        Working Day BM Unit Credit Assessment Import Capability (WDBMCAIC)
        Non- Working Day BM Unit Credit Assessment Import Capability (NWDBMCAIC)
        Effective From Date
        Effective To Date

Physical Interface Details:

9.21   CRA-I019: (output) Registration Data

Interface ID: From: CRA-I019 To: CDCA-I002	User: CDCA	Title: Registration Data	BSC Reference: CDCA SD: 4.6-4.14, A CDCA BPM 4.16, P100, P197, P215
Mechanism: Via shared database	Frequency: Daily	Volumes: Low	
Interface Requirement:			

Interface Requirement:

The CRA Service shall issue to the CDCA the registered meter data required by that system. This will contain:

Note: Certification /Accreditation refers to Qualification.

BSC Party Details
    BSC Party Name
    BSC Party ID

    Party Role Details
     BSC Party Type
     Registration Effective From Date
     Registration Effective To Date

     Role Address Details
      Address
      Telephone No
      Fax No
      e-mail Address

    Settlement Report Details
     Report Type
     Distribution Method

    Authentication Details
     Name
     Password

     Authorised Signatories
      Name
      Password
      Contact Phone No
      e-mail Address

     Authorisation Levels
      Activity
      Effective From Date
      Effective To Date

Interconnector Administrator Details
    Interconnector Administrator Name
    Interconnector Administrator ID
     Interconnector ID
    GSP Group ID (optional)
    Registration Effective From Date
    Registration Effective To Date

    Contact Details
     Name
     Telephone No
     Fax No
     e-mail Address
     Effective From Date
     Effective To Date

Meter Operator Agent Details
    Meter Operation Agent Name
    Meter Operation Agent Identifier
    Registration Effective From Date
    Registration Effective To Date

    Role Address Details
     Address
     Telephone No
     Fax No
     e-mail Address

    Authorised Signatories
     Name
     Password
     Contact Phone No
     e-mail Address

     Authorisation Levels
      Activity
      Effective From Date
      Effective To Date

    Certification/Accreditation Details
     Certification/Accreditation Status

Metering System Registration Details
    Metering System Identifier
    BSC Party ID
    Meter Operator Agent ID
    Effective From Date
    Effective To Date

Boundary Point Details
    Boundary Point ID
    Boundary Point Type
    Effective From Date
    Effective To Date

BM Unit Registration Details
    BM Unit Name
    BM Unit ID
    BM Unit Type
    NGC BM Unit Name
    GSP Group ID
    Trading Unit Name
    Lead Party Identifier
    Generation Capacity (MW)
    Demand Capacity (MW)
    Production / Consumption Flag
    Exempt Export Flag
    Base TU Flag
    Transmission Loss Factor
    FPN flag
    Credit Qualifying Status
    Interconnector ID
    Effective From Date
    Effective To Date

Interconnector Registration Details

    Name
    Additional Details
    Interconnector ID
    Effective From Date
    Effective To Date

GSP Group Registration Details

        GSP Group Registrant (ie the responsible distribution business)
        GSP Group ID
        GSP Group Name

GSP Details
        GSP ID
        Effective From Date
        Effective To Date

Physical Interface Details:

9.22   CRA-I022: (output) Metering System Details

Interface ID:: From: CRA-I022 To: TAA	User: TAA	Title: Metering System Details	BSC Reference: CRA SD 10.3
Mechanism: Manual	Frequency: On Request	Volumes: Low	

Interface Requirement:

The CRA system shall issue a report on the metering systems attributed to a given Technical Assurance Agent.

Metering System Registration Data

        Metering System Details
            Action Code
            Metering System Identifier
            BSC Party ID (registrant)
            Meter Operator Agent ID
            Effective From Date
            Effective To Date

The first field of each record of the report is an Action Code, indicating whether the record has a) been added or changed; b) been deleted or c) not changed.

Physical Interface Details:
A physical definition is included in the spreadsheet to define the format of the report which is printed out and passed to TAA.

9.23   CRA-I030: (input) Data Exception Reports

This interface is defined in Section 4 asECVAA-I016 and SAA-I017, and in Part 1 of the Interface Definition and Design as BMRA-I010.

9.24   CRA-I045: (input) Withdrawing Party Authorisation and Notification Details

See ECVAA-I047 in this section.

9.25   CRA-I046: (input) Withdrawing Party Settlement Details

9.26   See SAA-I037 in this section.ECVAA-I001 (input): Registration Data

See CRA-I013 and CRA-I015 in section 4, CRA-I017 in this section

9.27   ECVAA-I011: Account Bilateral Contract Volume Report

Interface ID:: From: ECVAA-I011 To: SAA-I008	User: SAA	Title: Account Bilateral Contract Volume Report	BSC Reference: ECVAA SD: 8.5, A RETA ERR: 6 ECVAA BPM: 3.3, 4.21 RETA SCH: 4, B, 3.1, CP527
Mechanism: Electronic data file transfer	Frequency: Daily and in support of disputes	Volumes:	

Interface Requirement:

The ECVAA Service shall issue an Account Bilateral Contract Volume Report to the SAA once a day. At the end of each Settlement Day, the ECVAA shall report Account Bilateral Contract Volumes for that Settlement Day to the SAA.

The ECVAA Service shall issue a revised Account Bilateral Contract Volume Report to the SAA as required to support disputes.

Note: Revision of ECVAA data in support of disputes will not cause credit cover tests to be retrospectively applied.

The Account Bilateral Contract Volume Report shall include:
    BSC Party ID
    Production/Consumption flag
    ECVAA Run Number
    Settlement Date
    Settlement Period (1-50)
    Account Bilateral Contract Volume (MWh)

9.28   ECVAA-I012: MVRN Report

Interface ID:: From: ECVAA-I012 To: SAA-I008	User: SAA	Title: MVRN Report	BSC Reference: ECVAA SD: 9.2, 9.4, A RETA ERR: 2 ECVAA BPM: 3.3, 4.19 RETA SCH: 4, B, 3.1, CP527
Mechanism: Electronic data file transfer	Frequency: Daily and in support of disputes	Volumes: Medium	

Interface Requirement:

The ECVAA Service shall issue a Metered Volume Reallocation Notification Report (initial and revised) to the SAA once a day. At the end of each Settlement Day, the ECVAA shall report valid Metered Volume Reallocation Notifications for that Settlement Day to the SAA.

The ECVAA Service shall issue a revised Metered Volume Reallocation Notification Report to the SAA as required to support disputes.

Note: Revision of ECVAA data in support of disputes will not cause credit cover tests to be retrospectively applied.

The Metered Volume Reallocation Notification Report shall comprise:

> BM Unit ID
> ECVAA Run Number
> Settlement Date
> Settlement Period (1-50)
> Lead Party Production/Consumption flag
> Subsidiary Party ID
> Subsidiary Party Energy Account Production/Consumption flag
> Metered Volume Fixed Reallocation (MWh)
> Metered Volume Percentage Reallocation (%)

9.29   ECVAA-I016: (output, common) ECVAA Data Exception Report

This interface is defined in Section 4.

9.30   ECVAA-I020: (input) Data Exception Reports

This interface is defined in Part One as SAA-I017.

9.31 ECVAA-I036: (output) Publish Credit Default Report

Interface ID:: From: ECVAA-I036 To: BMRA-I018	User: BMRA	Title: Publish Credit Default Report	BSC Reference: CP703, Variation 45
Mechanism: Electronic Data File Transfer	Frequency: As required	Volumes: Low	

Interface Requirement:

The ECVAA Service shall issue a Publish Credit Default Report to the BMRA as described in requirement ECVAA-F007.

The Publish Credit Default Report shall comprise:

Credit Default Notice:

BSC Party ID
Credit Default Level
Entered Default Settlement Day
Entered Default Settlement Period
Cleared Default Settlement Day
Cleared Default Settlement Period
Cleared Default Reason

Notes:
The Credit Default Level may be one of the following:
Level 1 Default;
Level 2 Default;
The Entered Settlement Day and Entered Settlement Period indicate when the BSC Party entered the reported default level.
The Cleared Settlement Day and Cleared Settlement Period indicate when the BSC Party cleared the reported default level.
The Cleared Default Reason indicates why the Party cleared default and may include one of the following
Credit Cover Percentage <= 75% of Credit Limit (Level 1 Default)
Credit Cover Percentage <= 90% of Credit Limit (Level 2 Default)
Authorisation Withdrawn by BSCCo Ltd (Discretionary).
Authorisation Withdrawn by BSCCo Ltd (Trading Dispute Upheld)
Party Withdrawn from BSC

9.32 ECVAA-I047: (output) Withdrawing Party Authorisation and Notification Details

Interface ID: ECVAA-I047	User: CRA	Title: Withdrawing Party Authorisation and Notification Details	BSC Reference: CP974
Mechanism: Manual, by email or fax	Frequency: On request	Volumes: Low	

Interface Requirement:

The ECVAA shall issue details of outstanding authorisations and notifications for a withdrawing participant, on request from the CRA.

> Report Date
> BSC Party / BSC Party Agent Name
> BSC Party / BSC Party Agent Id
>
> Authorisation and Notification Details
> > Indication of outstanding ECVNA / MVRNA authorisations for the party / agent[1]
> > Date of last outstanding non-zero notifications for the party[2]

1. This field is set to "Yes" if outstanding ECVNA / MVRNA authorisations are in place or "No" otherwise. An outstanding authorisation is one where the effective to date is null or equal to or greater than the report date. If outstanding authorisations are found the maximum effective to date is given.
2. The date of the last outstanding non-zero notification gives the last date for which there are outstanding non-zero ECVN / MVRN volumes relating to the party. For the avoidance of doubt, this check is done at the individual notification level (i.e. not after netting the notifications to give the overall contract position). Where the party has a notification in place with no effective to date, the date of the last outstanding non-zero notification is reported as "evergreen".

Physical Interface Details:

9.33 ECVAA-I048 (input) Physical Notification Data

See BMRA-I007 in this section.

9.34 SAA-I013: (output) Credit/Debit

This interface is defined in Section 4.

9.35 SAA-I001 (input): Registration Data

See CRA-I013 and CRA-I015 in section 4.

9.36 SAA-I002 (input): Credit Assessment Capability

See CRA-I017 in this section

9.37 SAA-I003 (input) SAA Balancing Mechanism Data

See BMRA-I007 in this section.

9.38   SAA-I004: (input) Period Meter Data

See CDCA-I027, CDCA-I028 and CDCA-I036 in this section.

9.39   SAA-I008: MVRN Report

See ECVAA-I011 and ECVAA-I012 in this section.

9.40   SAA-I015

This interface is redundant.

9.41   SAA-I016: (output, part 1) Settlement Calendar

This interface is defined in Part 1 of the Interface Definition and Design.

9.42   SAA-I017: (output, common) SAA Data Exception Report

This interface is defined in Part 1 of the Interface Definition and Design.

9.43   SAA-I037: (output) Withdrawing Party Settlement Details

Interface ID: SAA-I037	User: CRA	Title: Withdrawing Party Settlement Details	BSC Reference: CP974
Mechanism: Manual, via shared database	Frequency: On request	Volumes: Low	
Interface Requirement:			

The SAA shall issue settlement details for a withdrawing participant, on request from the CRA.
 	
    Report Date
    BSC Party Name
    BSC Party Id
 	
    Settlement Details
        Date of last non-zero metered volumes held in SAA
 	
The date of the last metered volumes held in SAA is the last settlement date for which the party has non-zero metered volumes registered against its Interconnector, Supplier or CDCA metered BM Units.			

Physical Interface Details:			

9.44   [P369]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:			

The SAA provides details of Demand Control Instructions to the CDCA as and when they are received from the ~~System Operator~~NETSO via SAA-I003.
 	
The Demand Control Instruction data shall include:
 	
      Demand Control Event ID
      Start Date and Time
      End Date and Time			

Physical Interface Details:			

9.45   SAA-I044: (input) Period BM Unit Demand Disconnection Volumes

See CDCA-I068 in this section.

9.46   CRA-I036: (output) Notification Agent Termination Request

Interface ID: From: CRA-I036 To: ECVAA-I030	User: ECVAA	Title: Notification Agent Termination Request	BSC Reference: CP503
Mechanism: Manual	Frequency: As required	Volumes: Low	
Interface Requirement:			

The CRA Service shall issue Notification Agent Termination Requests to ECVAA when CRA is in the process of terminating an MVRNA or ECVNA role.
 	
The Notification Agent Termination Request shall comprise:
 	
Notification Agent Termination Request:
 	
    BSC Party Agent Id
    BSC Party Agent Role (MVRNA or ECVNA)
    Termination effective date			

Physical Interface Details:			

9.47   ECVAA-I031: (output) Notification Agent Termination Feedback

Interface ID: From: ECVAA-I031 To: CRA-I037	User: CRA	Title: Notification Agent Termination Feedback	BSC Reference: CP503
Mechanism: Manual	Frequency: As required	Volumes: Low	
Interface Requirement:			

The ECVAA Service shall issue a Notification Agent Termination Feedback to CRA in response to a Notification Agent Termination Request.
 	
The Notification Agent Termination Feedback shall comprise:
 	
Notification Agent Termination Feedback:
 	
    BSC Party Agent Id
    BSC Party Agent Role (MVRNA or ECVNA)
    Termination effective date
    Termination Status
 	
Notes:
    Termination status may indicate one of two situations:
    1. The notification agent has no outstanding notification authorisations beyond the termination effective date (and therefore CRA may terminate the role)
    2. The notification agent has some outstanding notification authorisations beyond the termination effective date (and therefore CRA may not terminate the role)			

Physical Interface Details:			

9.48   ECVAA-I033: (input) Credit/Debit Reports

See SAA-I013 in Section 4.

9.49   CDCA-I040: (output) BM Unit 'Credit Cover' Meter Volume Data Report

Interface ID: From: CDCA-I040 To: ECVAA-I015	User: ECVAA	Title: BM Unit 'Credit Cover' Meter Volume Data Report	BSC Reference: P215
Mechanism: Electronic Data File Transfer	Frequency: As required or daily	Volumes: Up to 5000 BM Units	
Interface Requirement:			
Credit Cover meter volume data for BM Units is sent to ECVAA, as follows for each BM Unit: BM Unit Identifier Settlement Date 　　　Settlement Period 　　　Meter Volume A Meter Volume value of NULL is used to represent where no value could be generated.			
Physical Interface Details:			

9.50   ECVAA-I015: (input) BM Unit 'Credit Cover' Meter Volume Data

See CDCA-I040 in section 9.

9.51   BMRA-I027: (input) Settlement Reports

[P369]This interface is defined in Section 5 and has the same format as the SAA-I014 Sub Flow 2 sent to the ~~System Operator~~NETSO.

9.52   SAA-I049: Trading Unit Data

Interface ID: SAA-I049	User: BMRS	Title: Trading Unit Data	BSC Reference: P321
Mechanism: Electronic	Frequency: For each Settlement run	Volumes:	
Interface Requirement:			
The following data items will be sent by the SAA to the BMRS: 　　　• Trading Unit Name 　　　• Trading Unit Type 　　　• Settlement Date 　　　• Settlement Period 　　　• Settlement Run Type 　　　• Delivery Mode 　　　• Import Volume 　　　• Export Volume 　　　• Net Volume			
Physical Interface Details:			

10 Interfaces From and To Transfer Coordinator

10.1 CRA-I023: Issue Registration Transfer Report

Interface ID: CRA-I023	User: Transfer Coordinator (BSCCo)	Title: Issue Registration Transfer Report	BSC Reference: CRA SD 11.2, CP753, CP1223
Mechanism: Manual	Frequency: On Change of Status	Volumes: Low	
Interface Requirement:			

On completion of entry of confirmed updates resulting from a transfer of metering system(s) to or from SMRA, the CRA shall issue a report to the Transfer Coordinator detailing the data entered.
 	
Metering System registration details
Metering System Identifier
Meter Operator Agent ID
Effective from date
Effective to date
 	
BM Unit details
BM Unit ID
Effective from date
Effective to date
    SVA metering system identifiers
    SVA MSID (as supplied with CRA-I005)			

Physical Interface Details: The report is a copy of data held on the database for each item. Note that SVA MSIDs as specified in CRA-I005 are not entered on the database and so, where this is available, a copy of the original CRA-I005 flow as received will form part of this report.			

10.2 CRA-I038: Transfer from SMRS information

This interface is defined in Part 1 of the Interface Definition and Design.

10.3 CRA-I039: Transfer from SMRS report

Interface ID: CRA-I039	User: Transfer Coordinator	Title: Transfer from SMRS report	BSC Reference: CP753
Mechanism: Manual	Frequency: On Demand	Volumes: low	
Interface Requirement:			

The following information is reported to the Transfer coordinator following receipt of new transfer from SMRS information
    SVA registrant
    Import SVA MSID
    Export SVA MSID
    Import CVA MSID
    Export CVA MSID
    CVA MOA
    Site name
    BM Unit Id(s)
 	
    Whether the CVA registrant is registered as a party in CMRS.
    Whether the CVA Registrant has nominated a BM Unit Id to be registered in CMRS.			

Whether the Registration Effective From Date is operationally achievable. Whether the nominated BM Unit Id is ready for Registration in CMRS when the Registration Effective From Date is Confirmed by the Transfer Co-ordinator. Whether the MOA in the Metering Systems Registration is valid. Whether the transfer request is valid comments/reasons for being invalid Note: SVA data can only be reported where this has been provided by the registrant
Physical Interface Details::

10.4   CRA-I040: Transfer to SMRS information

This interface is defined in Part 1 of the Interface Definition and Design.

10.5   CRA-I041: Transfer to SMRS report

Interface ID: CRA-I041	**User:** Transfer Coordinator	**Title:** Transfer to SMRS report	**BSC Reference:** CP753
Mechanism: Manual	**Frequency:** On Demand	**Volumes:** low	
Interface Requirement:			

The following information is reported to the Transfer coordinator following receipt of new transfer to SMRS information
      CVA registrant
      Import SVA MSID
      Export SVA MSID
      Import CVA MSID
      Export CVA MSID
      Site name
      BM Unit Id(s)
 	
Whether the Metering System is registered in CRA
Whether the BM Unit(s) are registered in CRA
Whether the effective to date is possible
Whether the BM Unit is ready for deregistration
whether the BM Unit is part of a Trading Unit registered using CRA-F015
Whether the transfer request is valid
comments/reasons for being invalid
 	
Note:
      SVA data can only be reported where this has been provided by the registrant			

Physical Interface Details:			

10.6   CDCA-I055: (input)Transfer from SMRS information

This interface is defined in Part 1 of the Interface Definition and Design.

10.7   CDCA-I056: (output)Transfer from SMRS report

Interface ID: CDCA-I056	User: Transfer Coordinator	Title: Transfer from SMRS report	BSC Reference: CP753
Mechanism: Manual	**Frequency:** On Demand	**Volumes:** low	
Interface Requirement: The following information is reported to the Transfer coordinator following receipt of new transfer from SMRS information 　　SVA registrant 　　Import SVA MSID 　　Export SVA MSID 　　Import CVA MSID 　　Export CVA MSID 　　CVA MOA 　　Site name 　　BM Unit Id(s) 　　Whether aggregation rules have been registered for the BM Units 　　Whether the BM Units and CVA Metering Systems are linked by the aggregation rules 　　Whether the transfer request is valid 　　comments/reasons for being invalid			
Physical Interface Details: 			

10.8   CDCA-I057: (input) Transfer to SMRS information

This interface is defined in Part 1 of the Interface Definition and Design.

10.9   CDCA-I058: (output) Transfer to SMRS report

Interface ID: CDCA-I058	User: Transfer Coordinator	Title: Transfer to SMRS report	BSC Reference: CP753
Mechanism: Manual	**Frequency:** On Demand	**Volumes:** low	
Interface Requirement: The following information is reported to the Transfer coordinator following receipt of new transfer to SMRS information 　　CVA registrant 　　Import SVA MSID 　　Export SVA MSID 　　Import CVA MSID 　　Export CVA MSID 　　Site name 　　BM Unit Id(s) 　　Whether aggregation rules have been registered for the BM Units 　　Whether the BM Units and CVA Metering Systems are linked by the aggregation rules 　　Whether the transfer request is valid 　　comments/reasons for being invalid			
Physical Interface Details: 			

11   Interfaces From and To EMR Settlement Services Provider

11.1   SAA-I042: (output) BM Unit Gross Demand Report

Interface ID:	User:	Title:	BSC Reference:
SAA-I042	CFD Settlement Services Provider	BM Unit Gross Demand Report	EMR

Mechanism:	Frequency:	Volumes:
Electronic data file transfer, XML	Daily	One per Settlement Run

Interface Requirement:

The SAA shall issue the BM Unit Gross Demand data to a CFD Settlement Services Provider for all Settlement Runs, The report shall include:

Settlement Date
Settlement Run Type
BSC Party ID
BM Unit ID
Settlement Period
TLM-Adjusted BM Unit Gross Demand

For each Settlement Period, the report will contain data for the following BM Units:

- Supplier BM Units, for which the TLM-Adjusted BM Unit Gross Demand is defined as:

$$\text{TLM-Adjusted BM Unit Gross Demand} = - \, TLM_{ij} * \text{BM Unit SVA Gross Demand}$$

    where BM Unit SVA Gross Demand is calculated by SVAA, and will be deemed to be zero if a value has not been received from SVAA; and

- BM Units other than Supplier BM Units and Interconnector BM Units, for which the TLM-Adjusted BM Unit Gross Demand is defined as:

$$\text{TLM-Adjusted BM Unit Gross Demand} = TLM_{ij} * \min (\text{BM Unit Metered Volume}, 0)$$

Physical Interface Details:

This file will be sent in a format defined by an XML Schema established and maintained by the SAA.