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| NETA Interface Definition and Design: Part 2  Interfaces to other Service Providers |

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| 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. |
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| Prepared by | Design Authority |

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Table Of Contents

[1 Introduction 9](#_Toc29198368)

[1.1 Purpose 9](#_Toc29198369)

[1.1.1 Summary 9](#_Toc29198370)

[1.2 Scope 9](#_Toc29198371)

[1.2.1 The Scope of this Document 9](#_Toc29198372)

[1.3 Summary 9](#_Toc29198373)

[1.4 Amendment History 11](#_Toc29198374)

[1.5 References 12](#_Toc29198375)

[1.6 Abbreviations 12](#_Toc29198376)

[2 Common Interface Conventions 13](#_Toc29198377)

[2.1 Interface Mechanisms 13](#_Toc29198378)

[2.1.1 Manual 13](#_Toc29198379)

[2.1.2 Electronic Data File Transfer 13](#_Toc29198380)

[2.1.3 Internal Interfaces 15](#_Toc29198381)

[2.1.4 Repeating Structure 15](#_Toc29198382)

[2.1.5 File names 15](#_Toc29198383)

[2.1.6 Unstructured File Format 16](#_Toc29198384)

[2.1.7 Acknowledgement Messages and Sequence Numbers 16](#_Toc29198385)

[2.1.8 Time 16](#_Toc29198386)

[2.1.9 Valid Sets 16](#_Toc29198387)

[3 External Interface Summary 18](#_Toc29198388)

[3.1 Interfaces by BSC Agent 18](#_Toc29198389)

[3.1.1 BMRA Interfaces 18](#_Toc29198390)

[3.1.2 CDCA Interfaces 19](#_Toc29198391)

[3.1.3 CRA Interfaces 19](#_Toc29198392)

[3.1.4 ECVAA Interfaces 20](#_Toc29198393)

[3.1.5 SAA Interfaces 21](#_Toc29198394)

[3.2 Interfaces by Corresponding Party 22](#_Toc29198395)

[3.2.1 BSCCo Ltd Interfaces 22](#_Toc29198396)

[3.2.2 FAA Interfaces 24](#_Toc29198397)

[3.2.3 NETSO Interfaces 25](#_Toc29198398)

[3.2.4 Stage 2 Interfaces 25](#_Toc29198399)

[3.2.5 Transfer Coordinator Interfaces 27](#_Toc29198400)

[3.2.6 Internal Interfaces 27](#_Toc29198401)

[3.2.7 EMR Settlement Services Provider Interfaces 28](#_Toc29198402)

[4 Interfaces From and To Multiple Parties 29](#_Toc29198403)

[4.1 CRA-I004: (input) BSC Service Agent Details 29](#_Toc29198404)

[4.2 CRA-I013: (output) Issue Authentication Report 30](#_Toc29198405)

[4.3 CRA-I015: (output) BM Unit, Interconnector and GSP Group Data 32](#_Toc29198406)

[4.4 CRA-I020: (output) Operations Registration Report 34](#_Toc29198407)

[4.5 CRA-I028: (output) NGC Standing Data Report 36](#_Toc29198408)

[4.6 ECVAA-I016: (output) ECVAA Data Exception Report 37](#_Toc29198409)

[4.7 ECVAA-I025: (output) Credit Cover Minimum Eligible Amount Report 37](#_Toc29198410)

[4.8 SAA-I013: (output) Credit/Debit Reports 38](#_Toc29198411)

[5 Interfaces From and To The System Operator 39](#_Toc29198412)

[5.1 BMRA-I002: (input) Balancing Mechanism Data 39](#_Toc29198413)

[5.2 BMRA-I003: (input) System Related Data 40](#_Toc29198414)

[5.3 BMRA-I010: (output, common) Data Exception Reports 41](#_Toc29198415)

[5.4 BMRA-I014: (input) Price Adjustment Data 42](#_Toc29198416)

[5.5 BMRA-I020: (input) BM Unit Fuel Type List 43](#_Toc29198417)

[5.6 BMRA-I021: (input) Temperature Reference Data 43](#_Toc29198418)

[5.7 BMRA-I022: (input) Daily Energy Volume Reference Data 44](#_Toc29198419)

[5.8 BMRA-I023: (input) Wind Generation Registered Capacities 44](#_Toc29198420)

[5.9 BMRA-I034: (input) Trading Unit Data 44](#_Toc29198421)

[5.10 CDCA-I012: (output, part 1) Report Raw Meter Data 44](#_Toc29198422)

[5.11 CDCA-I029: (output, part 1) Aggregated GSP Group Take Volumes 44](#_Toc29198423)

[5.12 CDCA-I042: (output, part 1) BM Unit Aggregation Report 45](#_Toc29198424)

[5.13 CDCA-I049: (output) Total Demand per GSP 45](#_Toc29198425)

[5.14 CDCA-I051: (output) Report Meter Technical Details 45](#_Toc29198426)

[5.15 CDCA-I067: (input) Disconnected CVA BM Units 45](#_Toc29198427)

[5.16 CRA-I007: (input/output) Boundary Point and System Connection Point Data 45](#_Toc29198428)

[5.17 CRA-I008: (input) Interconnector Registration Details 45](#_Toc29198429)

[5.18 CRA-I013: (output, common) Issue Authentication Report 46](#_Toc29198430)

[5.19 CRA-I014: (output, part 1) Registration Report 46](#_Toc29198431)

[5.20 CRA-I020: (output) Operations Registration Report 46](#_Toc29198432)

[5.21 CRA-I028: (output) NGC Standing Data Report 46](#_Toc29198433)

[5.22 SAA-I012 (input, part 1) Dispute Notification 46](#_Toc29198434)

[5.23 SAA-I014 (output) Settlement Report 47](#_Toc29198435)

[5.24 SAA-I017: (output, common) SAA Data Exception Report 51](#_Toc29198436)

[5.25 SAA-I018 (output, part 1) Dispute Report 51](#_Toc29198437)

[5.26 SAA-I026: (input) Price Adjustment Data 52](#_Toc29198438)

[5.27 SAA-I033: (input) Receive Request for Data Change 53](#_Toc29198439)

[5.28 BMRA-I024: (input) Large Combustion Plant Directive Spreadsheet 53](#_Toc29198440)

[5.29 BMRA-I025: (input) SO-SO Prices 54](#_Toc29198441)

[5.30 BMRA-I026: (input) SO-SO Standing Data 55](#_Toc29198442)

[5.31 BMRA-I028: (input) Receive REMIT Data 55](#_Toc29198443)

[5.32 BMRA-I029: (input) Receive Transparency Regulation Data 56](#_Toc29198444)

[5.33 BMRA-I036: (input) Receive Replacement Reserve Data 57](#_Toc29198445)

[5.34 P0292: (input) ABS MSID Pair Delivered Volume Notification 58](#_Toc29198446)

[5.35 P0293: (output) Rejection of ABS MSID Pair Delivered Volume 58](#_Toc29198447)

[5.36 P0294: (output) Confirmation of ABS MSID Pair Delivered Volume 59](#_Toc29198448)

[5.37 P0295: (output) ABS MSID Pair Delivered Volume Exception Report 59](#_Toc29198449)

[6 Interfaces From and To FAA 60](#_Toc29198450)

[6.1 CRA-I004: (input, common) BSC Service Agent Details 60](#_Toc29198451)

[6.2 CRA-I013: (output, common) Issue Authentication Report 60](#_Toc29198452)

[6.3 CRA-I015: (output, common) BM Unit and Energy Account Registration Data 60](#_Toc29198453)

[6.4 ECVAA-I006: (input) Credit Limit Data 60](#_Toc29198454)

[6.5 ECVAA-I016: (output, common) ECVAA Data Exception Report 61](#_Toc29198455)

[6.6 SAA-I011: (input) Payment Calendar Data 61](#_Toc29198456)

[6.7 SAA-I013: (output, common) Credit/Debit Reports 61](#_Toc29198457)

[7 Interfaces From and To BSCCo Ltd 62](#_Toc29198458)

[7.1 BMRA-I010: (output, common) Data Exception Reports 62](#_Toc29198459)

[7.2 BMRA-I011: (output) Performance Reports 62](#_Toc29198460)

[7.3 BMRA-I012: (input) System Parameters 63](#_Toc29198461)

[7.4 BMRA-I013: (output) BMRA BSC Section D Charging Data 64](#_Toc29198462)

[7.5 CDCA-I014: (output, part 1) Estimated Data Report 65](#_Toc29198463)

[7.6 BMRA-I016: (input) Receive Market Index Data Provider Thresholds 66](#_Toc29198464)

[7.7 BMRA-I017: (output) Report Market Index Data Provider Thresholds 67](#_Toc29198465)

[7.8 CDCA-I018: (output, part 1) MAR Reconciliation Report 68](#_Toc29198466)

[7.9 CDCA-I019: (output, part 1) MAR Remedial Action Report 68](#_Toc29198467)

[7.10 CDCA-I022: (input) Distribution Line Loss Factors 68](#_Toc29198468)

[7.11 CDCA-I023: (output) Missing Line Loss Factors 69](#_Toc29198469)

[7.12 CDCA-I032: (output) Data Collection and Aggregation Performance Report 70](#_Toc29198470)

[7.13 CDCA-I047: (output, part 1) Correspondence Receipt Acknowledgement 71](#_Toc29198471)

[7.14 CDCA-I061 (input) Receive System Parameters 71](#_Toc29198472)

[7.15 CDCA-I062: (input) Receive Sample Settlement Periods 71](#_Toc29198473)

[7.16 CDCA-I063: (output) Metered Volume Data for Sample Settlement Periods 72](#_Toc29198474)

[7.17 CDCA-I064: (output) MOA Proving Tests Report 73](#_Toc29198475)

[7.18 CDCA-I065: (output) MOA Fault Resolution Report 74](#_Toc29198476)

[7.19 CRA-I001: (input & output, part 1) BSC Party Registration Data 75](#_Toc29198477)

[7.20 CRA-I003: (input, part 1) BSC Party Agent Registration Data 75](#_Toc29198478)

[7.21 CRA-I004: (input, common) BSC Service Agent Details 75](#_Toc29198479)

[7.22 CRA-I009: (input) Receive Manual Credit Qualifying Flag 75](#_Toc29198480)

[7.23 CRA-I011: (input) Credit Assessment Load Factors 75](#_Toc29198481)

[7.24 CRA-I020: (output, common) Operations Registration Report 76](#_Toc29198482)

[7.25 CRA-I028: (output) NGC Standing Data Report 76](#_Toc29198483)

[7.26 CRA-I029: (input) Transmission Loss Factors 76](#_Toc29198484)

[7.27 CRA-I032: (output) CRA Performance Reports 77](#_Toc29198485)

[7.28 CRA-I034: (input) Flexible Reporting Request 77](#_Toc29198486)

[7.29 CRA-I035: (output) CRA BSC Section D Charging Data 78](#_Toc29198487)

[7.30 CRA-I042: (input) Receive Market Index Data Provider Registration Data 78](#_Toc29198488)

[7.31 CRA-I043: (input) Receive Exempt Export Registration Data 79](#_Toc29198489)

[7.32 CRA-I044: (input) Withdrawals Checklist Request 80](#_Toc29198490)

[7.33 CRA-I047: (output) Withdrawals Checklist 80](#_Toc29198491)

[7.34 CRA-I050: GC or DC Breach Estimation Challenge Decision 81](#_Toc29198492)

[7.35 ECVAA-I017: (output) ECVAA Performance Report 82](#_Toc29198493)

[7.36 ECVAA-I021: (output) Credit Limit Warning 83](#_Toc29198494)

[7.37 ECVAA-I023: (output) ECVAA BSC Section D Charging Data 83](#_Toc29198495)

[7.38 ECVAA-I026: (output) Minimum Eligible Amount Request 84](#_Toc29198496)

[7.39 ECVAA-I027: (input) Notification of BSC Parties in Section H Default 84](#_Toc29198497)

[7.40 ECVAA-I032: (input) Credit Assessment Price 85](#_Toc29198498)

[7.41 ECVAA-I040: (output) Issue Notification System Status Report 85](#_Toc29198499)

[7.42 ECVAA-I041: Receive Party Credit Default Authorisation Details 86](#_Toc29198500)

[7.43 SAA-I010: (input) BSCCo Ltd Cost Data (Redundant) 86](#_Toc29198501)

[7.44 SAA-I012: (input, part 1) Dispute Notification 87](#_Toc29198502)

[7.45 SAA-I014 (output) Settlement Reports 87](#_Toc29198503)

[7.46 SAA-I016: (output, part 1) Settlement Calendar 89](#_Toc29198504)

[7.47 SAA-I018: (output, part 1) Dispute Report 89](#_Toc29198505)

[7.48 SAA-I019: (output) BSC Party Performance Reports (Redundant) 89](#_Toc29198506)

[7.49 SAA-I020: (output) SAA Performance Reports 90](#_Toc29198507)

[7.50 SAA-I023: (input) System Parameters 91](#_Toc29198508)

[7.51 SAA-I025: (output) SAA BSC Section D Charging Data 91](#_Toc29198509)

[7.52 SAA-I027: (output) Report pre-settlement run validation failure 92](#_Toc29198510)

[7.53 SAA-I028: (input) Receive settlement run decision 92](#_Toc29198511)

[7.54 SAA-I029: (input) Receive settlement run instructions 93](#_Toc29198512)

[7.55 SAA-I031: (input) Receive Market Index Data Provider Thresholds 94](#_Toc29198513)

[7.56 SAA-I032: (output) Report Market Index Data Provider Thresholds 95](#_Toc29198514)

[7.57 SAA-I034: (output) Report Recommended Data Change 95](#_Toc29198515)

[7.58 SAA-I035: (input) Receive Instruction for Data Change 96](#_Toc29198516)

[7.59 SAA-I036: (output) Report Confirmation of Data Change 96](#_Toc29198517)

[7.60 SAA- I038: (input) Receive Excluded Emergency Acceptance Pricing Information 97](#_Toc29198518)

[7.61 SAA-I039: (output) Send Excluded Emergency Acceptance Dry Run Results 97](#_Toc29198519)

[7.62 SAA- I040: (input) Receive Authorisation To Proceed With Full Settlement Run 98](#_Toc29198520)

[7.63 ECVAA-I049: (input) Request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default 98](#_Toc29198521)

[7.64 ECVAA-I050: (output) Remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default Feedback. 99](#_Toc29198522)

[7.65 BMRA-I033: (Input) STOR Availability Window 100](#_Toc29198523)

[7.66 SAA-I046: (Input) STOR Availability Window 100](#_Toc29198524)

[8 Interfaces From and To Stage 2 101](#_Toc29198525)

[8.1 CDCA-I043: (output) GSP Group Take to SVAA 101](#_Toc29198526)

[8.2 CRA-I004: Agent Details 102](#_Toc29198527)

[8.3 SAA-I007: (input) BM Unit Allocated Demand Volume 102](#_Toc29198528)

[8.4 SAA-I016: (output, part 1) Settlement Calendar 102](#_Toc29198529)

[8.5 SAA-I017: (output, common) SAA Data Exception Report 102](#_Toc29198530)

[8.6 CRA-I015: (output) BM Unit Registration Data 103](#_Toc29198531)

[8.7 BMRA-I032: (output) Demand Control Instructions to SVAA 103](#_Toc29198532)

[8.8 SAA-I045: (input) BM Unit Allocated Demand Disconnection Volume 104](#_Toc29198533)

[8.9 SAA-I050: (input) Secondary BM Unit Demand Volumes 105](#_Toc29198534)

[8.10 SAA-I051: (input) Secondary BM Unit Supplier Delivered Volumes 106](#_Toc29198535)

[8.11 SAA-I052: (output) Daily Activations Report 107](#_Toc29198536)

[8.12 SAA-I054: (input) Supplier BM Unit Non BM ABSVD 108](#_Toc29198537)

[9 Interfaces Within BSC Central Systems 109](#_Toc29198538)

[9.1 BMRA-I001 (input): Registration Data 109](#_Toc29198539)

[9.2 BMRA-I007 (output) SAA/ECVAA Balancing Mechanism Data 109](#_Toc29198540)

[9.3 BMRA-I010: (output, common) Data Exception Reports 110](#_Toc29198541)

[9.4 BMRA-I018: (input) Publish Credit Default Report 110](#_Toc29198542)

[9.5 CDCA-I002: (input) Registration Data 110](#_Toc29198543)

[9.6 CDCA-I016: (input) Information from TAA 110](#_Toc29198544)

[9.7 CDCA-I020: (input) Site Visit Inspection Report 111](#_Toc29198545)

[9.8 CDCA-I027: (output) Aggregated Interconnector Meter Flow Volumes 111](#_Toc29198546)

[9.9 CDCA-I028: (output) Aggregated BM Unit Meter Flow Volumes 112](#_Toc29198547)

[9.10 CDCA-I034:Settlement Calendar 112](#_Toc29198548)

[9.11 CDCA-I035: (input) Site Visit Report on Aggregation Rule Compliance 112](#_Toc29198549)

[9.12 CDCA-I036: (output) GSP Group Take to SAA 113](#_Toc29198550)

[9.13 CDCA-I039: (output) Information to TAA 113](#_Toc29198551)

[9.14 CDCA-I050: (input) Data Exception Reports 114](#_Toc29198552)

[9.15 CDCA-I066: (input) Demand Control Instructions to CDCA 114](#_Toc29198553)

[9.16 CDCA-I068: (output) Period BM Unit Demand Disconnection Volumes 114](#_Toc29198554)

[9.17 CRA-I010 114](#_Toc29198555)

[9.18 CRA-I013: (output, common) Issue Authentication Report 114](#_Toc29198556)

[9.19 CRA-I015: (output, common) BM Unit and Energy Account Registration Data 114](#_Toc29198557)

[9.20 CRA-I017 (output): Credit Assessment Capability 114](#_Toc29198558)

[9.21 CRA-I019: (output) Registration Data 115](#_Toc29198559)

[9.22 CRA-I022: (output) Metering System Details 118](#_Toc29198560)

[9.23 CRA-I030: (input) Data Exception Reports 118](#_Toc29198561)

[9.24 CRA-I045: (input) Withdrawing Party Authorisation and Notification Details 118](#_Toc29198562)

[9.25 CRA-I046: (input) Withdrawing Party Settlement Details 118](#_Toc29198563)

[9.26 See SAA-I037 in this section.ECVAA-I001 (input): Registration Data 118](#_Toc29198564)

[9.27 ECVAA-I011: Account Bilateral Contract Volume Report 119](#_Toc29198565)

[9.28 ECVAA-I012: MVRN Report 120](#_Toc29198566)

[9.29 ECVAA-I016: (output, common) ECVAA Data Exception Report 120](#_Toc29198567)

[9.30 ECVAA-I020: (input) Data Exception Reports 120](#_Toc29198568)

[9.31 ECVAA-I036: (output) Publish Credit Default Report 121](#_Toc29198569)

[9.32 ECVAA-I047: (output) Withdrawing Party Authorisation and Notification Details 122](#_Toc29198570)

[9.33 ECVAA-I048 (input) Physical Notification Data 122](#_Toc29198571)

[9.34 SAA-I013: (output) Credit/Debit 122](#_Toc29198572)

[9.35 SAA-I001 (input): Registration Data 122](#_Toc29198573)

[9.36 SAA-I002 (input): Credit Assessment Capability 122](#_Toc29198574)

[9.37 SAA-I003 (input) SAA Balancing Mechanism Data 122](#_Toc29198575)

[9.38 SAA-I004: (input) Period Meter Data 123](#_Toc29198576)

[9.39 SAA-I008: MVRN Report 123](#_Toc29198577)

[9.40 SAA-I015 123](#_Toc29198578)

[9.41 SAA-I016: (output, part 1) Settlement Calendar 123](#_Toc29198579)

[9.42 SAA-I017: (output, common) SAA Data Exception Report 123](#_Toc29198580)

[9.43 SAA-I037: (output) Withdrawing Party Settlement Details 123](#_Toc29198581)

[9.44 SAA-I043: (output) Demand Control Instructions to CDCA 124](#_Toc29198582)

[9.45 SAA-I044: (input) Period BM Unit Demand Disconnection Volumes 124](#_Toc29198583)

[9.46 CRA-I036: (output) Notification Agent Termination Request 124](#_Toc29198584)

[9.47 ECVAA-I031: (output) Notification Agent Termination Feedback 125](#_Toc29198585)

[9.48 ECVAA-I033: (input) Credit/Debit Reports 125](#_Toc29198586)

[9.49 CDCA-I040: (output) BM Unit ‘Credit Cover’ Meter Volume Data Report 125](#_Toc29198587)

[9.50 ECVAA-I015: (input) BM Unit ‘Credit Cover’ Meter Volume Data 126](#_Toc29198588)

[9.51 BMRA-I027: (input) Settlement Reports 126](#_Toc29198589)

[9.52 SAA-I049: Trading Unit Data 126](#_Toc29198590)

[9.53 SAA-I053 Daily Exchange Rate Report 126](#_Toc29198591)

[10 Interfaces From and To Transfer Coordinator 127](#_Toc29198592)

[10.1 CRA-I023: Issue Registration Transfer Report 127](#_Toc29198593)

[10.2 CRA-I038: Transfer from SMRS information 127](#_Toc29198594)

[10.3 CRA-I039: Transfer from SMRS report 127](#_Toc29198595)

[10.4 CRA-I040: Transfer to SMRS information 128](#_Toc29198596)

[10.5 CRA-I041: Transfer to SMRS report 128](#_Toc29198597)

[10.6 CDCA-I055: (input)Transfer from SMRS information 128](#_Toc29198598)

[10.7 CDCA-I056: (output)Transfer from SMRS report 129](#_Toc29198599)

[10.8 CDCA-I057: (input) Transfer to SMRS information 129](#_Toc29198600)

[10.9 CDCA-I058: (output) Transfer to SMRS report 129](#_Toc29198601)

[11 Interfaces From and To EMR Settlement Services Provider 130](#_Toc29198602)

[11.1 SAA-I042: (output) BM Unit Gross Demand Report 130](#_Toc29198603)

# Introduction

## Purpose

### 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.

## Scope

### 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.

## Summary

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

1. Section 2 describes common interface conventions, in particular defining the approach to interfacing via file transfer.
2. Section 2.1 gives a summary of the interfaces, organised by BSC agent and by corresponding party.
3. Sections 4 to 8 and 10 to 11 define the interfaces to each of the corresponding parties.
4. Section 9 defines interfaces between the BSC agents.

## 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 |
| 28/02/2019 | 39.0 | February 2019 Release – P344 | P284C/01 |
|  |  | February 2019 Release – P359 | ISG212/03 |
|  |  | February 2019 Release – P297 | P222/06 |
|  |  | February 2019 Release – P373 | P284/04 |
| 29/03/2019 | 40.0 | March 2019 Standalone Release – P369 | P285/12 |
| 27/06/2019 | 41.0 | June 2019 Release – P367 Self-Governance | ISG216/01 |
| 11/12/2019 | 42.0 | 11 December 2019 Standalone Release – CP1517 | ISG220/01  ISG222/03 |
| 27/02/2020 | 43.0 | 27 February 2020 Release – P394 | P295/17 |
| 01/04/20 | 43.1 | 1 April 2020 Standalone Release – P354 |  |

## 

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| [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 |

## Abbreviations

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

# Common Interface Conventions

## Interface Mechanisms

This section outlines the different interface mechanisms used.

### 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:

1. for flows submitted by post or fax, the signatory’s signature is required;
2. 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.

### 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].

#### 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.

#### NGC File Format

Data received from the National Electricity Transmission System Operator (NETSO) (described in this document as flows BMRA-I002 and BMRA-I003) will be formatted according to the 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.

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

#### 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.

#### 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.

### 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:

1. via shared database – between CRA, SAA and CDCA
2. electronic data file transfer – between these and ECVAA and BMRA.

### 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.

#### The Tabs of the Spreadsheet

There is one tab corresponding to the each of the sections of this document: *Multiple, NETSO, BSCCo Ltd, FAA, Stage 2, Internal.* The *NG*C tab shows the structure of the files sent from the NETSO 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”.

### File names

The names of the files received from the NETSO 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.

### Unstructured File Format

With the exception of files from the NETSO and files to and from SVAA, the unstructured file format defined in section 2.2.6 of Part I is available.

### Acknowledgement Messages and Sequence Numbers

Section 2.2.7, Acknowledgement Messages, of Part I applies to all files except those from the NETSO.

With the exception of files from the 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.

### 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.

### Valid Sets

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

#### Activity

See Part 1, section 2.2.11.1

#### BMRA Exception Type

One of the values:

‘B’ (Balancing Mechanism Data Incomplete)

‘T’ (Termination or general input file validation error)

#### BM Unit Type

See Part 1, section 2.2.11.2

#### Charge Type

One of the values:

‘A’ (Administration Charge)

‘C’ (Daily Party RR Cashflow)

‘D’ (Daily Party RR Instruction Deviation Cashflow)

‘E’ (Energy Imbalance Cashflows)

‘I’ (Information Imbalance Charges)

‘N’ (Non-delivery Charge)

‘R’ (Residual Cashflow Reallocations)

‘B’ (BM Payments)

‘S’ (System Operator Charges)

#### Organisation Type

See Part 1, section 2.2.11.9

#### Run Type

See Part 1, section 2.2.11.13

# 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.

## 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.

### BMRA Interfaces

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Agent-id** | **Name** | **Dir’n** | **User** | **Type** |
| BMRA-I002 | Balancing Mechanism Data | from | NETSO | Electronic data file transfer, NGC File Format |
| BMRA-I003 | System Related Data | from | 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 | 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 | NETSO | Manual |
| BMRA-I021 | Temperature Reference Data | from | NETSO | Manual |
| BMRA-I022 | Daily Energy Volume Reference Data | from | NETSO | Manual |
| BMRA-I023 | Wind Generation Registered Capacities | from | NETSO | Manual |
| BMRA-I024[[1]](#footnote-1) | Large Combustion Plant Directive Spreadsheet | from | BSCCo Ltd | Manual |
| BMRA-I025 | SO-SO Prices | from | NETSO | Automatic |
| BMRA-i026 | SO-SO Standing Data | from | NETSO | Manual |
| BMRA-I027 | Settlement Report | from | SAA (I014) | Electronic data file transfer |
| BMRA-I028 | Receive REMIT Data | From | NETSO | Electronic data file transfer |
| BMRA-I029 | Receive Transparency Data | From | 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 |

### CDCA Interfaces

| **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]](#footnote-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 | NETSO | Electronic data file transfer |
| CDCA-I051 | Report Meter Technical Details | to | 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 | NETSO, Distribution Business | Manual |
| CDCA-I068 | Aggregated BM Unit Disconnection Volumes | To | SAA | Via shared database |

### CRA Interfaces

| **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 | 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 |
| CRA-I013 | Issue Authentication Report | to | FAA | Electronic data file transfer |
| CRA-I013 | Issue Authentication Report | to | 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 | 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 | 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 | 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 |
| CRA-I050 | GC or DC Breach Estimation Challenge Decision | from | BSCCo Ltd | Manual |

### 

### 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]](#footnote-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 |

### SAA Interfaces

| **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 | 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 | 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 | 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 |
| SAA-I046 | STOR Availability Window | From | BSCCo | Manual |
| SAA-I049 | Trading Unit Data | To | BMRA (I034) | Electronic data file transfer |
| SAA-I050 | Secondary BM Unit Demand Volumes | From | SVAA | Electronic data file transfer |
| SAA-I051 | Secondary BM Unit Supplier Delivered Volumes | From | SVAA | Electronic data file transfer |
| SAA-I052 | Daily Activations Report | To | SVAA | Electronic data file transfer |
| SAA-I054 | Supplier BM Unit Non BM ABSVD | from | SVAA | Electronic data file transfer |

## 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.

### BSCCo Ltd Interfaces

| **Dir’n** | **User** | **Agent-id** | **Name** | **Type** |
| --- | --- | --- | --- | --- |
| To | 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]](#footnote-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]](#footnote-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 |
| 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 |
| from | BSCCo Ltd | CRA-I050 | GC or DC Breach Estimation Challenge Decision | 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 |

### 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 |

### NETSO Interfaces

| **Dir’n** | **User** | **Agent-id** | **Name** | **Type** |
| --- | --- | --- | --- | --- |
| from | NETSO | BMRA-I002 | Balancing Mechanism Data | Electronic data file transfer, NGC File Format |
| from | NETSO | BMRA-I003 | System Related Data | Electronic data file transfer, NGC File Format |
| *to* | *NETSO* | *BMRA-I010* | *Data Exception Reports* | *Electronic data file transfer* |
| from | *NETSO* | BMRA-I014 | Price Adjustment Data | Automatic |
| *from* | *NETSO* | *BMRA-I020* | BM Unit Fuel Type List | *Manual* |
| *from* | *NETSO* | *BMRA-I021* | Temperature Reference Data | *Manual* |
| *from* | *NETSO* | *BMRA-I022* | Daily Energy Volume Reference Data | *Manual* |
| *from* | *NETSO* | *BMRA-I023* | Wind Generation Registered Capacities | *Manual* |
| from | NETSO | BMRA-I025 | SO-SO Prices | Automatic |
| from | NETSO | BMRA-I026 | SO-SO Standing Data | Manual |
| *to* | *NETSO* | *CDCA-i012* | *Report Raw Meter Data (Part 1)* | *Electronic Data File Transfer* |
| *to* | *NETSO* | *CDCA-I014* | *Estimated Data Report (Part 1)* | *Electronic data file transfer* |
| *to* | *NETSO* | *CDCA-I029* | *Aggregated GSP Group Take Volumes (Part 1)* | *Electronic Data File Transfer* |
| *to* | *NETSO* | *CDCA-I042* | *BM Unit Aggregation Report (Part 1)* | *Electronic Data File Transfer* |
| to | NETSO | CDCA-I049 | Total Demand Per GSP | Electronic data file transfer |
| *to* | *NETSO* | *CDCA-I051* | *Report Meter Technical Details* | *Manual* |
| *from* | *NETSO* | *CRA-I007* | *Boundary Point and System Connection Point Registration Data* | *Manual* |
| *from* | *NETSO* | *CRA-I008* | *Interconnector Registration Details* | *Manual* |
| to | NETSO | CRA-I013 | Issue Authentication Report | Electronic data file transfer |
| *to* | *NETSO* | *CRA-I014* | *Registration Report (Part 1)* | *Electronic Data File Transfer* |
| to | NETSO | CRA-I020 | Operations Registration Report | Electronic data file transfer |
| to | NETSO | CRA-I028 | NGC Standing Data Report | Electronic data file transfer |
| from | NETSO | CRA-I034 | Flexible Reporting Request | Manual |
| *from* | *NETSO* | *SAA-I012* | *Dispute Notification (Part 1)* | *Manual* |
| to | NETSO | SAA-I014 | Settlement Report | Electronic data file transfer |
| *to* | *NETSO* | *SAA-I017* | *SAA Data Exception Report (Part 1)* | *Electronic data file transfer* |
| *to* | *NETSO* | *SAA-I018* | *Dispute Report (Part 1)* | *Manual* |
|  |  |  |  |  |
| from | NETSO | SAA-I026 | Price Adjustment Data | Automatic |
| from | NETSO | SAA-I033 | Receive Request for Data Change | Manual |
| to | NETSO | SAA-I036 | Report Confirmation of Data Change | Manual |
| from | NETSO | BMRA-I028 | Receive REMIT Data | Electronic data file transfer |
| from | NETSO | BMRA-I029 | Receive Transparency Data | Electronic data file transfer |
| from | NETSO | BMRA-I036 | Receive Replacement Reserve Data | Electronic data file transfer |
| from | NETSO | P0292 | ABS MSID Pair Delivered Volume Notification | Electronic data file transfer, Pool Transfer File Format |
| to | NETSO | P0293 | Rejection of ABS MSID Pair Delivered Volume | Electronic data file transfer, Pool Transfer File Format |
| to | NETSO | P0294 | Confirmation of ABS MSID Pair Delivered Volume | Electronic data file transfer, Pool Transfer File Format |
| to | NETSO | P0295 | ABS MSID Pair Delivered Volume Exception Report | Electronic data file transfer, Pool Transfer File Format |

### 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 |
| From | SVAA | SAA-I050 | Secondary BM Unit Demand Volumes | Electronic data file transfer, Pool Transfer File Format |
| From | SVAA | SAA-I051 | Secondary BM Unit Supplier Delivered Volumes | Electronic data file transfer, Pool Transfer File Format |
| To | SVAA | SAA-I052 | Daily Activations Report | Electronic data file transfer, Pool Transfer File Format |
| from | SVAA | SAA-I054 | Supplier BM Unit Non BM ABSVD | Electronic data file transfer, Pool Transfer File Format |
| to | SVAA | P0292 | ABS MSID Pair Delivered Volume Notification | Electronic data file transfer, Pool Transfer File Format |
| to | SVAA | P0293 | Rejection of ABS MSID Pair Delivered Volume | Electronic data file transfer, Pool Transfer File Format |
| to | SVAA | P0294 | Confirmation of ABS MSID Pair Delivered Volume | Electronic data file transfer, Pool Transfer File Format |
| to | SVAA | P0295 | ABS MSID Pair Delivered Volume Exception Report | Electronic data file transfer, Pool Transfer File Format |

### 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 |

### 

### 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]](#footnote-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 |
| 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 |
| SAA-I053 | n/a | Daily Exchange Rate Report | Electronic data file transfer |

### 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 |

# Interfaces From and To Multiple Parties

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

## 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. | | | |

## CRA-I013: (output) Issue Authentication Report

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  From: CRA-I013  To: BMRA-I001  To: ECVAA-I001  To: SAA-I001  *EPFAL Ref: FAA-I025* | **User:**  FAA  ECVAA  SAA  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  Role Address Details  Action Code  Address  Telephone No  Fax No  e-mail Address  Authorised Signatories  Action Code  Name  Password  Contact Phone No  e-mail Address  Authorisation Levels  Action Code  Activity  Effective From Date  Effective To Date  Market Index Data Provider Details  Action Code  Market Index Data Provider Name  Market Index Data Provider ID  Market Index Data Provider Effective Dates  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:** | | | |

## 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]](#footnote-7)  Transmission Loss Factor (TLFij))  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)  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:** | | | |
|  | | | |

## CRA-I020: (output) Operations Registration Report

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  CRA-I020 | **User:**  BSCCo Ltd, NETSO | **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 NETSO 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]](#footnote-8)  NWDCALF[[9]](#footnote-9)  SECALF[[10]](#footnote-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  BM Unit Group 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  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. | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  CRA-I028 | **User:**  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 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:** | | | |

## 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 | | | |
|  | | | |

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

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

## 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, P344 |
| **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  Daily Party RR Cashflow  Daily Party RR Instruction Deviation 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:** | | | |
|  | | | |

# Interfaces From and To the NETSO

## BMRA-I002: (input) Balancing Mechanism Data

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I002 | **Source:**  NETSO | **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 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  For Settlement Dates after and including the P344 effective date this flow shall also include:  Acceptance and Balancing Services Data  RR Instruction Flag | | | |
| **Physical Interface Details:**  Further clarification of the content of the input data from the 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 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 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 | | | |
|  | | | |

## BMRA-I003: (input) System Related Data

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I003 | **Source:**  The NETSO | **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 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]](#footnote-11)  Forecast national Surplus Data for 2-52 weeks File (OCNMFW)[[12]](#footnote-12)  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.  In addition to the files above, from time to time the 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 NETSO.  The System Zone Map and BM Unit mapping spreadsheets are submitted to the BMRA as email attachments sent to the BSC Service Desk. | | | |

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

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

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.

## BMRA-I014: (input) Price Adjustment Data

| **Interface ID:**  BMRA-I014 | **Source:**  The NETSO | **Title:**  Price Adjustment Data | **BSC Reference:**  P8, P78, CP1223, P217 |
| --- | --- | --- | --- |
| **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 BMRA Service shall receive the following data from the NETSO via an automatic interface.  Balancing Services Adjustment Data  Settlement Date  Settlement Period (1-50)  EBCAj (Net Buy-Price Cost Adjustment)(Energy)  EBVAj (Net Buy-Price Volume Adjustment)(Energy)  SBVAj (Net Buy-Price Volume Adjustment)(System)  BPAj (Buy-Price Price Adjustment)  ESCAj (Net Sell-Price Cost Adjustment)(Energy)  ESVAj (Net Sell-Price Volume Adjustment)(Energy)  SSVAj (Net Sell-Price Volume Adjustment)(System)  SPAj (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 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:** | | | |
|  | | | |

## 

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I020 | **Source:**  The NETSO | **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. | | | |

## BMRA-I021: (input) Temperature Reference Data

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I021 | **Source:**  The NETSO | **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. | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I022 | **Source:**  The NETSO | **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. | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I023 | **Source:**  The NETSO | **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. | | | |

## BMRA-I034: (input) Trading Unit Data

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

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

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

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

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

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

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  CDCA-I049 | **User:**  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 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:** | | | |
|  | | | |

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

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

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

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

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

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

## CRA-I008: (input) Interconnector Registration Details

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

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

This interface is defined in Section 4.

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

This interface is defined in Part 1 of the Interface Definition and Design. Registration reports for Interconnector registrations will be sent to the NETSO.

## CRA-I020: (output) Operations Registration Report

This interface is defined in Section 4.

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

This interface is defined in Section 4.

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

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

## SAA-I014 (output) Settlement Report

There are four variants of the Settlement Report. The first and fourth variants are sent to BSC Parties and are defined in Part 1 of the IDD. The second variant is sent to the 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:**  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, P344 |
| **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 SBPj £/MWh  System Sell Price SSPj £/MWh  Total Demand (sum of all negative QMij)  Total Generation (sum of all positive QMij)  Information Imbalance Price 1 (£/MWh)  Information Imbalance Price 2 (£/MWh)  Arbitrage Flag  CADLd Continuous Acceptance Duration Limit  DMATd De Minimis Acceptance Threshold  BPAj (Buy Price Price Adjustment) (£/MWh)  SPAj (Sell Price Price Adjustment) (£/MWh)  Total Period Applicable Balancing Services Volume (TQASj) (MWh)  Price Derivation Code (PDCj)  Total NIV Tagged Volume (MWh)  Settlement Period Information (for Settlement Dates prior to the P217 effective date)  EBCAj (Net Energy Buy Price Cost Adjustment) (£)  EBVAj (Net Energy Buy Price Volume Adjustment) (MWh)  SBVAj (Net System Buy Price Volume Adjustment) (MWh)  ESCAj (Net Energy Sell Price Cost Adjustment) (£)  ESVAj (Net Energy Sell Price Volume Adjustment) (MWh)  SSVAj (Net System Sell Price Volume Adjustment) (MWh)  Settlement Period Information (for post P217 Settlement Dates):  Total System Accepted Bid Volume  Total System Accepted Offer Volume  Total System Tagged Accepted Bid Volume  Total System Tagged Accepted Offer Volume  Total System Repriced Accepted Bid Volume  Total System Repriced Accepted Offer Volume  Total System Originally-priced Accepted Bid Volume  Total System Originally-priced Accepted Offer Volume  Total System Adjustment Sell Volume  Total System Adjustment Buy Volume  Total System Tagged Adjustment Sell Volume  Total System Tagged Adjustment Buy Volume  Total System Repriced Adjustment Sell Volume  Total System Repriced Adjustment Buy Volume  Total System Originally-priced Adjustment Sell Volume  Total System Originally-priced Adjustment Buy Volume  Replacement Price  Replacement Price Calculation Volume  Settlement Period Information (for post P305 Settlement Dates, otherwise will be null for Pre P305 dates):  STOR Availability Window Flag  Loss of Load Probability  De-rated Margin  Value of Lost Load  Reserve Scarcity Price  Settlement Period Information (for Effective Dates after the TERRE P344 Final Implementation Date):  GBP EUR Exchange Rate  Balancing Energy Deviation Price  Total System RR Cashflow  RR Aggregated Unpriced System Buy Action Volume  RR Aggregated Unpriced System Sell Action Volumes  Period RR Accepted Offer Volume  Period RR Accepted Bid Volume  Market Index Information:  Market Index Data Provider  Individual Liquidity Threshold  Market Index Price  Market Index Volume  Balancing Services Adjustment Action Data (post P217 only):  Balancing Services Adjustment Action Id  Balancing Services Adjustment Action Cost (£)  Balancing Services Adjustment Action Volume  Tagged Balancing Services Adjustment Action Volume  Repriced Balancing Services Adjustment Action Volume  Originally-Priced Balancing Services Adjustment Action Volume  Balancing Services Adjustment Action SO-Flag  Balancing Services Adjustment Action STOR Provider Flag (Post P305 only; will be null for Pre P305 dates)  Trading Unit Period Information:  Trading Unit Name  Total Trading Unit Metered Volume (MWh)  BM Unit Period Information:  BM Unit ID (i)  Trading Unit Name  Period FPN (FPNij) (MWh)  BM Unit Metered Volume (QMij) (MWh)  Transmission Loss Multiplier (TLMij)  BM Unit Applicable Balancing Services Volume (QASi) (MWh)  Maximum Export Limit Information:  Time From  Level From (MW)  Time to  Level To (MW)  Maximum Import Limit Information:  Time From  Level From (MW)  Time to  Level To (MW)  The second part of the report is split into a section for each BSC Party. Each such section contains the information sent to the individual party in the “first variant” of the Settlement Report as defined in IDD Part 1:  BSC Party Settlement Date information:  Settlement Date  Settlement Run Type  SAA Run Number  SAA CDCA Settlement Run Number  SVAA CDCA Settlement Date  SVAA CDCA Settlement Run Number  SVAA SSR Run Number  BSC Party Id  Aggregate Party Day Charges (defined in IDD Part 1)  Settlement Period Information:  Settlement Period (1-50) (j)  Aggregate Party Period Charges (defined in IDD Part 1)  System Period Data (defined in IDD Part 1)  System Quarter Hour Data (defined in IDD Part 1)  Account Period Information:  Production/Consumption Flag (a)  Account Period Data (defined in IDD Part 1)  Account Period BMU Information:  BM Unit ID (i)  Account Period BMU Data (defined in IDD Part 1)  BM Unit Period Information:  BM Unit ID  BM Unit Period Data (defined in IDD Part 1)  Trading Unit Name  Total Trading Unit Metered Volume (MWh)  BM Unit RR Data  Supplier BM Unit Non BM ABSVD Data  BM Unit Period FPN Spot Points (fFPNit):  Time from  FPN Value from  Time to  FPN Value to  BM Unit Period Bid-Offer Information:  Bid-Offer pair number (n)  Bid-Offer Data (defined in IDD Part 1)  BM Unit Period Bid-Offer Spot Points (fQBOnij):  Time from  Bid-Offer Value from  Time to  Bid-Offer Value to  BM Unit Period Bid-Offer Acceptance (for all Settlement Dates):  Bid-Offer Acceptance number  CADL Flag  BM Unit Period Bid-Offer Acceptance (for post P217 Settlement Dates):  Acceptance SO-Flag  BM Unit Period Bid-Offer Acceptance (for post P305 Settlement Dates, otherwise will be null for Pre P305 dates):  Acceptance STOR Provider Flag  Reserve Scarcity Price Flag  BM Unit Period Bid-Offer Acceptance (for Effective Dates after the TERRE P344 Final Implementation Date):  Acceptance Time  RR Instruction Flag  RR Schedule Flag  BM Unit Period Bid-Offer Acceptance Spot Points (qAkit):  Time from  Bid-Offer Acceptance Level Value From  Time to  Bid-Offer Acceptance Level Value To  BM Unit Bid-Offer Pair Acceptance Volume Data (post P217 only):  Bid-Offer Pair Number  Bid-Offer Pair Acceptance Bid Volume  Bid-Offer Pair Acceptance Offer Volume  BM Unit MVR Information:  Subsidiary Party ID and Production/Consumption Flag (a)  MVR Data (defined in IDD Part 1) | | | |
| **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  1. there are changes to prices or 2. there are changes to underlying BM Unit Period Bid-Offer Spot Points (BO2)) or 3. accepted bid or offer volume has been flagged as non-zero (i.e. NZni is set) in a previous Settlement Run that occurred on or after 11/3/03 or 4. 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.  For avoidance of doubt, all items relating to Replacement Reserve will be reported for all Settlement Runs. | | | |

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

## 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.

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

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

## 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)  EBCAj (Net Buy-Price Cost Adjustment)(Energy)  EBVAj (Net Buy-Price Volume Adjustment)(Energy)  SBVAj (Net Buy-Price Volume Adjustment)(System)  BPAj (Buy-Price Price Adjustment)  ESCAj (Net Sell-Price Cost Adjustment)(Energy)  ESVAj (Net Sell-Price Volume Adjustment)(Energy)  SSVAj (Net Sell-Price Volume Adjustment)(System)  SPAj (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:  EBCAj (Net Buy-Price Cost Adjustment)(Energy)  EBVAj (Net Buy-Price Volume Adjustment)(Energy)  SBVAj (Net Buy-Price Volume Adjustment)(System)  ESCAj (Net Sell-Price Cost Adjustment)(Energy)  ESVAj (Net Sell-Price Volume Adjustment)(Energy)  SSVAj (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:** | | | |
|  | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  SAA-I033 | **Source:**  The NETSO | **Title:**  Receive Request for Data Change | **BSC Reference:**  CP995, P172 |
| **Mechanism:**  Manual | **Frequency:**  Ad-hoc | **Volumes:**  Low | |
| **Interface Requirement:**  The 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, QPN and RR. | | | |
| **Issues:** | | | |
|  | | | |

## BMRA-I024: (input) Large Combustion Plant Directive Spreadsheet[[13]](#footnote-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. | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I025 | **Source:**  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) 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 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 | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I026 | **Source:**  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. | | | |

## BMRA-I028: (input) Receive REMIT Data

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I029 | **Source:**  The NETSO | **Title:**  Transparency Data | **BSC reference:**  P295 |
| **Mechanism:**  Electronic data file transfer, XML and PDF | **Frequency:**  Continuous (as made available from 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](http://www.entsoe.eu)). | | | |

## BMRA-I036: (input) Receive Replacement Reserve Data

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  BMRA-I036 | **Source:**  The NETSO | **Title:**  Replacement Reserve Data | **BSC reference:**  P344 |
| **Mechanism:**  Electronic data file transfer, XML | **Frequency:**  Continuous (as made available from the NETSO) | **Volumes:** | |
| Logical:  The BMRA shall receive Replacement Reserve data from the NETSO. This data shall comprise:   * RR Bids * RR Auction Results, including: * RR Activations * Volume of GB Need Met * Interconnector Schedule Data   Note that RR Instruction data is received via the BMRA-I002 as part of Acceptance and Balancing Services Data.  This data shall be shared with the SAA upon receipt. | | | |
| **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; details are available from the ENTSO-E Website ([www.entsoe.eu](http://www.entsoe.eu)). | | | |

## P0292: (input) ABS MSID Pair Delivered Volume Notification

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  P0292 | **Source:**  The NETSO | **Title:**  ABS MSID Pair Delivered Volume Notification | **BSC reference:**  P354 |
| **Mechanism:**  Electronic data file transfer, XML | **Frequency:**  Daily | **Volumes:** | |
| Logical:  The SVAA shall receive ABS MSID Pair Delivered Volume data from the NETSO. This data shall comprise:  Settlement Date  GSP Group Id  Import MSID  Export MSID ((except where there is no Export MSID in the MSID Pair)  Settlement Period Id  Delivered Volume | | | |
| **Physical Interface Details:**  These files will be received in the format defined for the P0292 in the IDD Part 1/2 Spreadsheet | | | |
|  | | | |
|  | | | |

## P0293: (output) Rejection of ABS MSID Pair Delivered Volume

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  P0293 | **User:**  The NETSO | **Title:**  Rejection of ABS MSID Pair Delivered Volume Data | **BSC reference:**  P354 |
| **Mechanism:**  Electronic data file transfer, XML | **Frequency:**  Daily | **Volumes:** | |
| Logical:  If a P0292 file fails validation, the SVAA shall issue a Rejection of ABS MSID Pair Delivered Volume to the NETSO. This data shall comprise:  Delivered Volume Rejection Reason | | | |
| **Physical Interface Details:**  These files will be issued in the format defined for the P0293 in the IDD Part 1/2 Spreadsheet | | | |
|  | | | |
|  | | | |

## P0294: (output) Confirmation of ABS MSID Pair Delivered Volume

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  P0294 | **User:**  The NETSO | **Title:**  Confirmation of ABS MSID Pair Delivered Volume Data | **BSC reference:**  P354 |
| **Mechanism:**  Electronic data file transfer, XML | **Frequency:**  Daily | **Volumes:** | |
| Logical:  If a P0292 file passes validation, the SVAA shall issue a Confirmation of ABS MSID Pair Delivered Volume Data to the NETSO. This data shall comprise:  Settlement Date | | | |
| **Physical Interface Details:**  These files will be issued in the format defined for the P0294 in the IDD Part 1/2 Spreadsheet | | | |
|  | | | |
|  | | | |

## P0295: (output) ABS MSID Pair Delivered Volume Exception Report

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  P0295 | **User:**  The NETSO | **Title:**  ABS MSID Pair Delivered Volume Data | **BSC reference:**  P354 |
| **Mechanism:**  Electronic data file transfer, XML | **Frequency:**  Daily | **Volumes:** | |
| Logical:  Where it has not been possible for the SVAA to allocate one or more ABS MSID Pair Delivered Volume(s) contained in a P0292 to the MSIDs in the relevant MSID Pair(s), the SVAA shall issue an ABS MSID Pair Delivered Volume Exception Report to the NETSO which shall include details of each relevant MSID Pair Delivered Volume. This data shall comprise:  Settlement Date  GSP Group Id  Import MSID  Export MSID (except where there is no Export MSID in the MSID Pair)  Settlement Period Id  Delivered Volume  Delivered Volume Rejection Reason | | | |
| **Physical Interface Details:**  These files will be issued in the format defined for the P0295 in the IDD Part 1/2 Spreadsheet | | | |
|  | | | |
|  | | | |

# Interfaces From and To FAA

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

This interface is defined in Section 4.

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

This interface is defined in Section 4.

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

This interface is defined in Section 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) | | | |
|  | | | |
|  | | | |

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

This interface is defined in Section 4.

## 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 | | | |
|  | | | |

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

This interface is defined in Section 4.

# Interfaces From and To BSCCo Ltd

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

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

## 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:** | | | |
|  | | | |

## BMRA-I012: (input) System Parameters

| **Interface ID:**  BMRA-I012 | **Status:**  Mandatory | **Title:**  System Parameters | **BSC Reference:**  CR 003, P10, P18A, P194, P217, P305 |
| --- | --- | --- | --- |
| **Mechanism:**  Manual | **Frequency:**  Ad-hoc | **Volumes:**  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  NRLj (Notional Reserve Limit) (MW)  DMATd (De Minimis Acceptance Threshold) (MWh)  CADLd (Continuous Acceptance Duration Limit (minutes)  PARd (Price Average Reference Volume) (MWh) (0-9,999,999,999)  RPARd (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:** | | | |
|  | | | |

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

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

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

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

## 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: | | | |
|  | | | |

## 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  MIDP Date Range  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 | | | |
| **Physical Interface Details:** | | | |
|  | | | |
| Issues: | | | |
|  | | | |

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

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

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

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

## 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:** | | | |
|  | | | |

## 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:** | | | |
|  | | | |

## 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:** | | | |

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

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

## 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: | | | |
|  | | | |

## CDCA-I062: (input) Receive Sample Settlement Periods[[14]](#footnote-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. | | | |

## 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]](#footnote-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 | |

## 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:  Participant Header  Market Sector  Market Participant Role Code  Meter Operator Agent Id  Period End Date  Periodicity  CVA MOA Serial 1 Data  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 | |

## 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 | |

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

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

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

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

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

This interface is defined in Section 4.

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  CRA-I009 | **Source:**  BSCCo Ltd | **Title:**  Manual Credit Qualifying Flag | **BSC Reference:**  P215, P394 |
| **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)  This interface is not in use following P394 implementation. | | | |
| **Physical Interface Details:** | | | |
|  | | | |

## 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 (WDCALFi)  Non-Working Day Credit Assessment Load Factor (NWDCALFi)  Supplier Export Credit Assessment Load Factor (SECALFi)  Effective From Date | | | |
| **Physical Interface Details:** | | | |
|  | | | |

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

This interface is defined in Section 4.

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

This interface is defined in Section 4.

## 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]](#footnote-16)  Effective from Date  Effective to Date | | | |
|  | | | |

## 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.

## 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. | | | |
|  | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  CRA-I035 | **User:**  BSCCo Ltd | **Title:**  CRA BSC Section D Charging Data | **BSC Reference:**  CR 65, CN160, P100 |
| **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  Count of CVA Metering Systems  Count of CVA BM Units  Count of CVA Exempt Export BM Units  Count of Secondary 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:** | | | |

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

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

## 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:  BM Unit Details  BSC Party Id  BM Unit Id  Exempt Export Registration  Effective From Settlement Date  Or,  Exempt Export De-Registration  Effective To Settlement Date | | | |
| **Physical Interface Details:** | | | |
|  | | | |

## 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  1. 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:** | | | |
|  | | | |

## 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:** | | | |
|  | | | |

## CRA-I050: GC or DC Breach Estimation Challenge Decision

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  CRA-I050 | **User:**  BSCCo | **Title:**  GC or DC Breach Estimation Challenge Decision | **BSC reference:**  P359 |
| **Mechanism:**  Manual | **Frequency:**  As required | **Volumes:**  low | |
| **Interface Requirement:** | | | |
| Where a BSC Party has Challenged a GC or DC Breach Estimation for a BM Unit, the CRA shall receive details of BSCCo’s decision:  BM Unit Id  Type of GC or DC Breach  Settlement Day  Settlement Period  Decision Type (Upheld or Rejected)  BSCCo-estimated GC or DC Amount\*  Effective From Date for BSCCo-estimated GC or DC Amount\* | | | |
| *\*For an Upheld Challenge only* | | | |
| **Physical Interface Details:** | | | |

## 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. | | | |
| 1. Percentage of valid new or updated registration data incorporated in ECVAA systems within 1 day of receipt 2. Percentage of valid new or updated credit limit data incorporated in ECVAA systems within 1 day of receipt 3. Percentage of Energy Contract Volume Authorisation requests processed within 1 day of receipt 4. Percentage of Energy Contract Volume Authorisation termination requests processed within 1 day of receipt 5. Percentage of Metered Volume Reallocation Authorisation requests processed within 1 day of receipt 6. Percentage of requests to add additional BM Unit Subsidiaries to an existing Metered Volume Reallocation Authorisation processed within 1 day of receipt 7. Percentage of Metered Volume Reallocation Authorisation termination requests processed within 1 day of receipt 8. Percentage of Energy Contract Volume Notifications processed within 15 minutes of receipt 9. 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 10. Percentage of Metered Volume Reallocation Notifications processed within 15 minutes of receipt 11. Percentage of Metered Volume Reallocation Notifications for SD transmitted to SAA by 12:00 on SD + 2. 12. 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). 13. 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). | | | |
|  | | | |

## ECVAA-I021: (output) Credit Limit Warning

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  ECVAA-I023 | **User:**  BSCCo Ltd | **Title:**  ECVAA 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 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  zabj | ECQ zabj |+zabj | ECQ zbaj |+ zaij | QMFR zaij |+ zbij | QMFR zbij |  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:** | | | |

## 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. | | | |
|  | | | |

## 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. | | | |
|  | | | |

## 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:** | | | |
|  | | | |

## 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:   1. The start of an ECVAA System Failure or ECVAA System Withdrawal; 2. A change in the Notification Agents affected by an existing ECVAA System Failure or ECVAA System Withdrawal; or 3. 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:** | | | |
|  | | | |

## 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:** | | | |
|  | | | |

## 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. | | | |
|  | | | |

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

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

## SAA-I014 (output) Settlement Reports

There are three variants of the Settlement Report. The first variant is sent to BSC Parties and is defined in Part 1 of the IDD. The second variant is sent to the 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 QMij)  Notional Reserve Limit (MW) (only for Settlement Dates prior to the P78 effective date)  Arbitrage Flag  CADLd Continuous Acceptance Duration Limit  DMATd 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 (FPNij) (MWh)  BM Unit Metered Volume (QMij) (MWh)  Transmission Loss Multiplier (TLMij)  BM Unit Applicable Balancing Services Volume (QASi) (MWh)  BM Unit Period Bid-Offer Information:  Bid-Offer Pair Number (n)  Bid Price (PBnij) (£)  Offer Price (POnij) (£)  BM Unit Period Bid-Offer Spot Points (fQBOnij):  Time from  Bid-Offer Value from  Time to  Bid-Offer Value to  Maximum Export Limit Information:  Time From  Level From (MW)  Time to  Level To (MW)  Maximum Import Limit Information:  Time From  Level From (MW)  Time to  Level To (MW) | | | |
| **Physical Interface Details:**  This is sub-flow 3 of the Settlement Report, file id S0143.  For the Interim Initial Settlement Run, the full set of data is included in the file.  For subsequent Settlement Runs, certain information is only included if it has been changed: this applies to the Maximum Export Limit Information, (MEL), Minimum Export Limit Information (MIL), and BM Unit Period Bid-Offer Spot Points (BO2). BM Unit Period Bid-Offer Information (BBO) is only included where there are changes (to prices or to underlying BM Unit Period Bid-Offer Spot Points (BO2)).  For BO2 it is possible that the change being reported is that the record has been deleted; this is indicated by reporting nulls, e.g.  where there had been a record  BO2|10|123456.789|20|123456.789|  deletion of this record would be shown by  BO2|10||20|| | | | |

Note:

SAA CDCA Settlement Run Number

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

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

SVAA CDCA Settlement Date

SVAA CDCA Settlement Run Number

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

SVAA SSR Run Number

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

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

SVAA CDCA Settlement Date

SVAA SSR Run Number

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

SVAA CDCA Run Number

Will be zero

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

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

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

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

## 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. | | | |

## 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:** | |
| **Interface Requirement:**  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 | | | |

## 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  NRLj (Notional Reserve Limit) (MW)  DMATd (De Minimis Acceptance Threshold) (MWh)  CADLd (Continuous Acceptance Duration Limit (minutes)  PARd (Price Average Reference Volume) (MWh) (0-9,999,999,999)  RPARd (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:** | | | |
|  | | | |

## 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:** | | | |

## 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**: | | | |
|  | | | |

## 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:** | | | |
| 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**: | | | |
|  | | | |

## 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**: | | | |
|  | | | |

## 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: | | | |
|  | | | |

## 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  MIDP Date Range  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 | | | |
| **Physical Interface Details:** | | | |
|  | | | |
| Issues: | | | |
|  | | | |

## 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 NETSO (via SAA-I033) where the request is marked as an Emergency Instruction. | | | |
| **Non Functional Requirement:** | | | |
|  | | | |
| **Issues:** | | | |
|  | | | |

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

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

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

| **Interface ID:**  SAA-I036 | **User:**  BSCCo, the NETSO | **Title:**  Report Confirmation of Data Change | **BSC Reference:**  CP995, CP1283 |
| --- | --- | --- | --- |
| **Mechanism:**  Manual | **Frequency:**  In response to SAA-I035 for an Emergency Instruction  or  In response to SAA-I033 for a non-Emergency Instruction | **Volumes:**  Low | |
| **Interface Requirement:**  The SAA shall report to BSCCo and the 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:** | | | |
|  | | | |

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

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

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

| **Interface ID:**  SAA-I039 | **User:**  SAA | **Title:**  Send Excluded Emergency Acceptance Dry Run Results | **BSC Reference:**  P172 |
| --- | --- | --- | --- |
| **Mechanism:**  Manual | **Frequency:**  Ad-hoc | **Volumes:**  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:** | | | |
|  | | | |

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

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  ECVAA-I049 | **Source:**  BSCCo Ltd | **Title:**  Request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default | **BSC Reference:**  CP1140  CP1169 |
| **Mechanism:**  Manual, by email. | **Frequency:**  As required | **Volumes:**  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:** | | | |
|  | | | |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  ECVAA-I050 | **User:**  BSCCo Ltd | **Title:**  Remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default feedback | **BSC Reference:**  CP1140  CP1169 |
| **Mechanism:**  Manual, by email. | **Frequency:**  As required | **Volumes:**  Low | |
| **Interface Requirement:**  The ECVAA shall issue feedback to BSCCo Ltd following the receipt of a request to remove all 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. | | | |

## BMRA-I033: (Input) STOR Availability Window

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

## SAA-I046: (Input) STOR Availability Window

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

# 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.

## 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 | |

## CRA-I004: Agent Details

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

## 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 | |

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

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

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

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

## 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 |

## 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 NETSO | **Volumes:**  Low | |
| **Interface Requirement:**  The BMRA provides details of Demand Control Instructions to the SVAA as and when they are made available by the 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 | | | |
| **Physical Interface Details:**  See the physical flow for details, in the Stage 2 tab of the IDD Part 2 spreadsheet. | | | |

## 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 | | |
| **Interface Requirement:**  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) | | | | |
|  | | | | |
|  | | | | |
| **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 | |

## SAA-I050: (input) Secondary BM Unit Demand Volumes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Interface ID:**  SAA-I050 | **User:**  SAA | **Title:**  Secondary BM Unit Demand Volumes | | **BSC Reference:**  P344 |
| **Mechanism:**  Electronic data file transfer, Pool Transfer File Format | **Frequency:**  For SF run and all subsequent runs | **Volumes:**  High | | |
| **Interface Requirement:**  The SAA Service shall receive from the SVAA, Secondary BM Unit Demand Volumes relating to Replacement Reserve. | | | | |
| The data shall include: | | | | |
| Settlement Date  SSR Run Type Id  Secondary BM Unit Id  Settlement Period  Secondary BM Unit Demand Volume | | | | |
|  | | | | |
| 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 | | | ='P0289’ | |
| From Stage2 Role Code | | | =’G’ | |
| From Stage2 Participant Id | | | ='CAPG'' | |
| To Stage2 Role Code | | | ='F' | |
| To Stage2 Participant Id | | | = Id allocated to SAA 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 | |

## SAA-I051: (input) Secondary BM Unit Supplier Delivered Volumes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Interface ID:**  SAA-I051 | **User:**  SAA | **Title:**  Secondary BM Unit Supplier Delivered Volumes | | **BSC Reference:**  P344 |
| **Mechanism:**  Electronic data file transfer, Pool Transfer File Format | **Frequency:**  For SF run and all subsequent runs | **Volumes:**  High | | |
| **Interface Requirement:**  The SAA Service shall receive from the SVAA, Secondary BM Unit Supplier Delivered Volumes relating to Replacement Reserve. | | | | |
| The data shall include: | | | | |
| Settlement Date  SSR Run Type Id  BM Unit Id  Secondary BM Unit Id  Settlement Period  Secondary BM Unit Supplier Delivered Volume | | | | |
|  | | | | |
| 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 | | | ='P0290’ | |
| From Stage2 Role Code | | | =’G’ | |
| From Stage2 Participant Id | | | ='CAPG'' | |
| To Stage2 Role Code | | | ='F' | |
| To Stage2 Participant Id | | | = Id allocated to SAA 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 | |

## SAA-I052: (output) Daily Activations Report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Interface ID:**  SAA-I052 | **User:**  SVAA | **Title:**  Daily Activations Report | | **BSC Reference:**  P344 |
| **Mechanism:**  Electronic data file transfer, Pool Transfer File Format | **Frequency:**  For each Settlement Day | **Volumes:**  Medium | | |
| **Interface Requirement:**  The SAA Service shall send to the SVAA, a Daily Activations Report identifying those activations made in regard to Replacement Reserve. | | | | |
| The data shall include: | | | | |
| Settlement Date  BM Unit Id  Settlement Period  Secondary BM Unit Id  Settlement Period  RR Activation data | | | | |
|  | | | | |
| 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 | | | ='P0291’ | |
| From Stage2 Role Code | | | =’F’ | |
| From Stage2 Participant Id | | | ='CAPG'' | |
| To Stage2 Role Code | | | ='G' | |
| To Stage2 Participant Id | | | = CAPG | |
| Creation Time | | | = Id allocated to SAA by Stage 2 | |
| Sending Application Id | | | =NULL | |
| Receiving Application Id | | | =NULL | |
| Broadcast | | | =NULL | |
| Test Data Flag | | | indicates whether this is live data or test data | |

## SAA-I054: (input) Supplier BM Unit Non BM ABSVD

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Interface ID:**  SAA-I054 | **User:**  SAA | **Title:**  Daily Activations Report | | **BSC Reference:**  P354 |
| **Mechanism:**  Electronic data file transfer, Pool Transfer File Format | **Frequency:**  For each Settlement Day | **Volumes:**  Medium | | |
| **Interface Requirement:**  The SAA shall receive Supplier BM Unit Non BM ABSVD from the SVAA Service. | | | | |
| The data shall include: | | | | |
| Settlement Date  SSR Run Type  BM Unit Id  Settlement Period Id  Supplier BM Unit Non BM ABSVD Volume | | | | |
|  | | | | |
| 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 | | | ='P0296’ | |
| From Stage2 Role Code | | | =’G’ | |
| From Stage2 Participant Id | | | ='CAPG'' | |
| To Stage2 Role Code | | | ='F' | |
| To Stage2 Participant Id | | | = Id allocated to SAA 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 | |

# Interfaces Within BSC Central Systems

## BMRA-I001 (input): Registration Data

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

## 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 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 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 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 | | | |
| **Physical Interface Details:** | | | |
|  | | | |

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

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

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

See ECVAA-I036 in this section.

## CDCA-I002: (input) Registration Data

See CRA-I019 in this section.

## 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.   1. Relevant BSC Party 2. Meter Operator Agent 3. Metering Equipment technical details 4. Applicable Code of Practice 5. GSP and/or GSP Group | | | |

## 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:** | | | |
|  | | | |

## 

## 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:** | | | |
|  | | | |

## 

## 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:** | | | |
|  | | | |

## 

## CDCA-I034:Settlement Calendar

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

## 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:** | | | |
|  | | | |

## 

## 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:** | | | |
|  | | | |

## 

## 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.   1. Relevant BSC Party 2. Meter Operator Agent 3. Metering Equipment technical details 4. Applicable Code of Practice 5. GSP and/or GSP Group | | | |
| **Physical Interface Details:** | | | |
|  | | | |

## CDCA-I050: (input) Data Exception Reports

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

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

See SAA-I043 in this section.

## 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:** | | | |
|  | | | |

## CRA-I010

This interface is redundant.

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

This interface is defined in Section 4.

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

This interface is defined in Section 4.

## 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:** | | | |
|  | | | |

## 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:** | | | |
|  | | | |

## 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. | | | |

## 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.

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

See ECVAA-I047 in this section.

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

## 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

## 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) | | | |
|  | | | |
|  | | | |

## 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 (%) | | | |

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

This interface is defined in Section 4.

## ECVAA-I020: (input) Data Exception Reports

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

## 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 | | | |

## 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 / agent1  Date of last outstanding non-zero notifications for the party2   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:** | | | |
|  | | | |

## ECVAA-I048 (input) Physical Notification Data

See BMRA-I007 in this section.

## SAA-I013: (output) Credit/Debit

This interface is defined in Section 4.

## SAA-I001 (input): Registration Data

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

## SAA-I002 (input): Credit Assessment Capability

See CRA-I017 in this section

## SAA-I003 (input) SAA Balancing Mechanism Data

See BMRA-I007 in this section.

## SAA-I004: (input) Period Meter Data

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

## SAA-I008: MVRN Report

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

## SAA-I015

This interface is redundant.

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

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

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

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

## 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:** | | | |
|  | | | |

## 

## 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 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:** | | | |
|  | | | |

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

See CDCA-I068 in this section.

## 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:** | | | |
|  | | | |

## 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:** | | | |
|  | | | |

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

**See SAA-I013 in Section 4.**

## 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:** | | | |
|  | | | |

## ECVAA-I015: (input) BM Unit ‘Credit Cover’ Meter Volume Data

See CDCA-I040 in section 9.

## BMRA-I027: (input) Settlement Reports

This interface is defined in Section 5 and has the same format as the SAA-I014 Sub Flow 2 sent to the NETSO.

## 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:** | | | |
|  | | | |

## SAA-I053 Daily Exchange Rate Report

| **Interface ID:**  SAA-I053 | **User:**  BMRS | **Title:**  Daily Exchange Rate Report | **BSC Reference:**  P344 |
| --- | --- | --- | --- |
| **Mechanism:**  Electronic | **Frequency:**  For each Settlement Day | **Volumes:**  Medium | |
| Interface Requirement: | | | |
| The following data items will be sent by the BMRS to the SAA   * Settlement Date * GBP-EUR Exchange Rate | | | |
| **Physical Interface Details:** | | | |
|  | | | |

# Interfaces From and To Transfer Coordinator

## 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. | | | |

## 

## CRA-I038: Transfer from SMRS information

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

## 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:** | | | |
|  | | | |

## CRA-I040: Transfer to SMRS information

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

## 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:** | | | |
|  | | | |

## 

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

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

## 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:** | | | |
|  | | | |

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

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

## 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:** | | | |
|  | | | |

# Interfaces From and To EMR Settlement Services Provider

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Interface ID:**  SAA-I042 | **User:**  CFD Settlement Services Provider | **Title:**  BM Unit Gross Demand Report | **BSC Reference:**  EMR |
| **Mechanism:**  Electronic data file transfer, XML | **Frequency:**  Daily | **Volumes:**  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:   TLM-Adjusted BM Unit Gross Demand = – TLMij \* 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:   TLM-Adjusted BM Unit Gross Demand = TLMij \* min (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. | | | |

1. P226 [↑](#footnote-ref-1)
2. P215 [↑](#footnote-ref-2)
3. P215 [↑](#footnote-ref-3)
4. P226 [↑](#footnote-ref-4)
5. This flow was added for the Introduction of Zonal Transmission Losses on an Average Basis (P82), but will not be used. [↑](#footnote-ref-5)
6. P215 [↑](#footnote-ref-6)
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. [↑](#footnote-ref-7)
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. [↑](#footnote-ref-8)
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. [↑](#footnote-ref-9)
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. [↑](#footnote-ref-10)
11. Where OCNMFD is referred to it should be interpreted as being equivalent to SPLD. [↑](#footnote-ref-11)
12. Where OCNMFW is referred to it should be interpreted as being equivalent to SPLW. [↑](#footnote-ref-12)
13. P226 [↑](#footnote-ref-13)
14. This functionality was added for the Introduction of Zonal Transmission Losses on an Average Basis (P82), but will not be used. [↑](#footnote-ref-14)
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 [↑](#footnote-ref-15)
16. Indented to show that there may be more than one TLF for a BSC Year [↑](#footnote-ref-16)