

NETA Interface Definition and Design: Part 2

Interfaces to other Service Providers

	Synopsis	This document contains the definition and design of all interfaces between the BSC Service Systems and other Systems. It includes the specification of file formats and structure of electronic files. Part two only contains details for interfaces which involve BSC Agents and other service providers.
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Table Of Contents

1	In	troduction	15
	1.1	Purpose	15
	1.1.1	Summary	15
	1.2	Scope	15
	1.2.1	The Scope of this Document	15
	1.3	Summary	15
	1.4	Amendment History	17
	1.5	References	17
	1.6	Abbreviations	18
2	C	ommon Interface Conventions	19
	2.1	Interface Mechanisms	19
	2.1.1	Manual	19
	2.1.2	Electronic Data File Transfer	19
	2.1.3	Internal Interfaces	21
	2.1.4	Repeating Structure	21
	2.1.5	File names	21
	2.1.6	Unstructured File Format	22
	2.1.7	Acknowledgement Messages and Sequence Numbers	22
	2.1.8	Time D	22
	2.1.9	Valid Sets	22
<u>3</u>	E	xternal Interface Summary	24
	3.1	Interfaces by BSC Agent	24
	3.1.1	BMRA Interfaces	24
	3.1.2	CDCA Interfaces.	25
	3.1.3	CRA Interfaces	25
	3.1.4	ECVAA Interfaces	27
	3.1.5	SAA Interfaces	28
	3.2	Interfaces by Corresponding Party	29
	3.2.1	BSCCo Ltd Interfaces	29
	3.2.2	FAA Interfaces	32
	3.2.3	System Operator Interfaces	32
	3.2.4	Stage 2 Interfaces	33
	3.2.5	Transfer Coordinator Interfaces	33
	3.2.6	Internal Interfaces	
	3.2.7	EMR Settlement Services Provider Interfaces	34
4	In	terfaces From and To Multiple Parties	35
	4.1	CRA-I004: (input) BSC Service Agent Details	35

	4.2	CRA-I013: (output) Issue Authentication Report	36
	4.3	CRA-I015: (output) BM Unit, Interconnector and GSP Group Data	38
	4.4	CRA-I020: (output) Operations Registration Report	40
	4.5	CRA-I028: (output) NGC Standing Data Report	42
	4.6	ECVAA-I016: (output) ECVAA Data Exception Report	43
	4.7	ECVAA-I025: (output) Credit Cover Minimum Eligible Amount Report	43
	4.8	SAA-I013: (output) Credit/Debit Reports	44
<u>5</u>]	nterfaces From and To System Operators	45
	5.1	BMRA-I002: (input) Balancing Mechanism Data	45
	5.2	BMRA-I003: (input) System Related Data	46
	5.3	BMRA-I010: (output, common) Data Exception Reports	47
	5.4	BMRA-I014: (input) Price Adjustment Data	48
	5.5	BMRA-I020: (input) BM Unit Fuel Type List	49
	5.6	BMRA-I021: (input) Temperature Reference Data	49
	5.7	BMRA-I022: (input) Daily Energy Volume Reference Data	50
	5.8	BMRA-I023: (input) Wind Generation Registered Capacities	50
	5.9	BMRA-I034: (input) Trading Unit Data	51
	5.10	CDCA-I012: (output, part 1) Report Raw Meter Data	51
	5.11	CDCA-I029: (output, part 1) Aggregated GSP Group Take Volumes	51
	5.12	CDCA-I042: (output, part 1) BM Unit Aggregation Report	51
	5.13	CDCA-I049: (output) Total Demand per GSP	51
	5.14	CDCA-I051: (output) Report Meter Technical Details	52
	5.15	CDCA-I067: (input) Disconnected CVA BM Units	52
	5.16	CRA-I007: (input/output) Boundary Point and System Connection Point Data	52
	5.17	CRA-I008: (input) Interconnector Registration Details	52
	5.18	CRA-I013: (output, common) Issue Authentication Report	52
	5.19	CRA-I014: (output, part 1) Registration Report	52
	5.20	CRA-I020: (output) Operations Registration Report	52
	5.21	CRA-I028: (output) NGC Standing Data Report	
	5.22	SAA-I012 (input, part 1) Dispute Notification	52
	5.23	SAA-I014 (output) Settlement Report	53
	5.24	SAA-I017: (output, common) SAA Data Exception Report	57
	5.25	SAA-I018 (output, part 1) Dispute Report	57
	5.26	SAA-I026: (input) Price Adjustment Data	58
	5.27	SAA-I033: (input) Receive Request for Data Change	59
	5.28	BMRA-I024: (input) Large Combustion Plant Directive Spreadsheet	59
	5.29	BMRA-I025: (input) SO-SO Prices	60

	5.30	BMRA-I026: (input) SO-SO Standing Data	61
	5.31	BMRA-I028: (input) Receive REMIT Data	61
	5.32	BMRA-I029: (input) Receive Transparency Regulation Data	62
<u>6</u>		Interfaces From and To FAA	63
	6.1	CRA-I004: (input, common) BSC Service Agent Details	63
	6.2	CRA-I013: (output, common) Issue Authentication Report	63
	6.3	CRA-I015: (output, common) BM Unit and Energy Account Registration Data	63
	6.4	ECVAA-I006: (input) Credit Limit Data	63
	6.5	ECVAA-I016: (output, common) ECVAA Data Exception Report	64
	6.6	SAA-I011: (input) Payment Calendar Data	64
	6.7	SAA-I013: (output, common) Credit/Debit Reports	64
7		Interfaces From and To BSCCo Ltd	<u>65</u>
	7.1	BMRA-I010: (output, common) Data Exception Reports	65
	7.2	BMRA-I011: (output) Performance Reports	65
	7.3	BMRA-I012: (input) System Parameters	66
	7.4	BMRA-I013: (output) BMRA BSC Section D Charging Data	67
	7.5	CDCA-I014: (output, part 1) Estimated Data Report	68
	7.6	BMRA-I016: (input) Receive Market Index Data Provider Thresholds	69
	7.7	BMRA-I017: (output) Report Market Index Data Provider Thresholds	70
	7.8	CDCA-I018: (output, part 1) MAR Reconciliation Report	71
	7.9	CDCA-I019: (output, part 1) MAR Remedial Action Report	71
	7.10	CDCA-I022: (input) Distribution Line Loss Factors	71
	7.11	CDCA-I023: (output) Missing Line Loss Factors	72
	7.12	CDCA-I032: (output) Data Collection and Aggregation Performance Report	73
	7.13	CDCA-I047: (output, part 1) Correspondence Receipt Acknowledgement	74
	7.14	CDCA-I061 (input) Receive System Parameters	74
	7.15	CDCA-I062: (input) Receive Sample Settlement Periods	74
	7.16	CDCA-I063: (output) Metered Volume Data for Sample Settlement Periods	75
	7.17	CDCA-I064: (output) MOA Proving Tests Report	76
	7.18	CDCA-I065: (output) MOA Fault Resolution Report	77
	7.19	CRA-I001: (input & output, part 1) BSC Party Registration Data	78
	7.20	CRA-I003: (input, part 1) BSC Party Agent Registration Data	78
	7.21	CRA-I004: (input, common) BSC Service Agent Details	78
	7.22	CRA-I009: (input) Receive Manual Credit Qualifying Flag	78
	7.23	CRA-I011: (input) Credit Assessment Load Factors	78
	7.24	CRA-I020: (output, common) Operations Registration Report	<u>79</u>
	7.25	CRA-I028: (output) NGC Standing Data Report	79

7.26	CRA-I029: (input) Transmission Loss Factors	79
7.27	CRA-I032: (output) CRA Performance Reports	80
7.28	CRA-I034: (input) Flexible Reporting Request	80
7.29	CRA-I035: (output) CRA BSC Section D Charging Data	81
7.30	CRA-I042: (input) Receive Market Index Data Provider Registration Data	81
7.31	CRA-I043: (input) Receive Exempt Export Registration Data	82
7.32	CRA-I044: (input) Withdrawals Checklist Request	83
7.33	CRA-I047: (output) Withdrawals Checklist	83
7.34	CRA-I050: GC or DC Breach Estimation Challenge Decision	84
7.35	ECVAA-I017: (output) ECVAA Performance Report	85
7.36	ECVAA-I021: (output) Credit Limit Warning	86
7.37	ECVAA-I023: (output) ECVAA BSC Section D Charging Data	86
7.38	ECVAA-I026: (output) Minimum Eligible Amount Request	87
7.39	ECVAA-I027: (input) Notification of BSC Parties in Section H Default	87
7.40	ECVAA-I032: (input) Credit Assessment Price	88
7.41	ECVAA-I040: (output) Issue Notification System Status Report	88
7.42	ECVAA-I041: Receive Party Credit Default Authorisation Details	89
7.43	SAA-I010: (input) BSCCo Ltd Cost Data (Redundant)	89
7.44	SAA-I012: (input, part 1) Dispute Notification	90
7.45	SAA-I014 (output) Settlement Reports	90
7.46	SAA-I016: (output, part 1) Settlement Calendar	92
7.47	SAA-I018: (output, part 1) Dispute Report	92
7.48	SAA-I019: (output) BSC Party Performance Reports (Redundant)	92
7.49	SAA-I020: (output) SAA Performance Reports	93
7.50	SAA-I023: (input) System Parameters	94
7.51	SAA-I025: (output) SAA BSC Section D Charging Data	94
7.52	SAA-I027: (output) Report pre-settlement run validation failure	95
7.53	SAA-I028: (input) Receive settlement run decision	95
7.54	SAA-I029: (input) Receive settlement run instructions	96
7.55	SAA-I031: (input) Receive Market Index Data Provider Thresholds	97
7.56	SAA-I032: (output) Report Market Index Data Provider Thresholds	98
7.57	SAA-I034: (output) Report Recommended Data Change	98
7.58	SAA-I035: (input) Receive Instruction for Data Change	99
7.59	SAA-I036: (output) Report Confirmation of Data Change	99
7.60	SAA- I038: (input) Receive Excluded Emergency Acceptance Pricing Information	<u>on 100</u>
7.61	SAA-I039: (output) Send Excluded Emergency Acceptance Dry Run Results	100
7.62	SAA- I040: (input) Receive Authorisation To Proceed With Full Settlement Run	101

	7.63	ECVAA-I049: (input) Request to remove all ECVNs and MVRNs from EC Party in Section H Default	CVAA for a 101
	<u>7.64</u>	ECVAA-I050: (output) Remove all ECVNs and MVRNs from ECVAA for Section H Default Feedback.	
	7.65	BMRA-I033: (Input) STOR Availability Window	103
	7.66	SAA-I046: (Input) STOR Availability Window	103
	7.67	SAA-I047 (input) BSCCo Calculated SBR Imbalance Price	
	7.68	SAA-I048 (output) SBR Imbalance Price Discrepancy Notice	104
8		Interfaces From and To Stage 2	105
	8.1	CDCA-I043: (output) GSP Group Take to SVAA	105
	8.2	CRA-I004: Agent Details	106
	8.3	SAA-I007: (input) BM Unit Allocated Demand Volume	106
	8.4	SAA-I016: (output, part 1) Settlement Calendar	106
	8.5	SAA-I017: (output, common) SAA Data Exception Report	
	8.6	CRA-I015: (output) BM Unit Registration Data	<u> </u>
	8.7	BMRA-I032: (output) Demand Control Instructions to SVAA	
	8.8	SAA-I045: (input) BM Unit Allocated Demand Disconnection Volume	108
9		Interfaces Within BSC Central Systems	109
	9.1	BMRA-I001 (input): Registration Data	109
	9.2	BMRA-I007 (output) SAA/ECVAA Balancing Mechanism Data	109
	9.3	BMRA-I010: (output, common) Data Exception Reports	110
	9.4	BMRA-I018: (input) Publish Credit Default Report	110
	9.5	CDCA-I002: (input) Registration Data	110
	9.6	CDCA-I016: (input) Information from TAA	110
	9.7	CDCA-I020: (input) Site Visit Inspection Report	111
	9.8	CDCA-I027: (output) Aggregated Interconnector Meter Flow Volumes	111
	9.9	CDCA-I028: (output) Aggregated BM Unit Meter Flow Volumes	
	9.10	CDCA-I034:Settlement Calendar	112
	9.11	CDCA-I035: (input) Site Visit Report on Aggregation Rule Compliance	112
	9.12	CDCA-I036: (output) GSP Group Take to SAA	113
	9.13	CDCA-I039: (output) Information to TAA	113
	9.14	CDCA-I050: (input) Data Exception Reports	114
	9.15	CDCA-I066: (input) Demand Control Instructions to CDCA	114
	9.16	CDCA-I068: (output) Period BM Unit Demand Disconnection Volumes	114
	9.17	CRA-I010	114
	9.18	CRA-I013: (output, common) Issue Authentication Report	114
	9.19	CRA-I015: (output, common) BM Unit and Energy Account Registration Dat	<u>a 114</u>
	9.20	CRA-I017 (output): Credit Assessment Capability	114

9.21	CRA-I019: (output) Registration Data	116
9.22	CRA-I022: (output) Metering System Details	118
9.23	CRA-I030: (input) Data Exception Reports	118
9.24	CRA-I045: (input) Withdrawing Party Authorisation and Notification Details	118
9.25	CRA-I046: (input) Withdrawing Party Settlement Details	118
9.26	See SAA-I037 in this section.ECVAA-I001 (input): Registration Data	119
9.27	ECVAA-I011: Account Bilateral Contract Volume Report	119
9.28	ECVAA-I012: MVRN Report	120
9.29	ECVAA-I016: (output, common) ECVAA Data Exception Report	120
9.30	ECVAA-I020: (input) Data Exception Reports	120
9.31	ECVAA-I036: (output) Publish Credit Default Report	121
9.32	ECVAA-I047: (output) Withdrawing Party Authorisation and Notification Details	122
9.33	ECVAA-I048 (input) Physical Notification Data	122
9.34	SAA-I013: (output) Credit/Debit	122
9.35	SAA-I001 (input): Registration Data	122
9.36	SAA-I002 (input): Credit Assessment Capability	122
9.37	SAA-I003 (input) SAA Balancing Mechanism Data	122
9.38	SAA-I004: (input) Period Meter Data	123
9.39	SAA-I008: MVRN Report	123
9.40	SAA-I015	123
9.41	SAA-I016: (output, part 1) Settlement Calendar	123
9.42	SAA-I017: (output, common) SAA Data Exception Report	123
9.43	SAA-I037: (output) Withdrawing Party Settlement Details	123
9.44	SAA-I043: (output) Demand Control Instructions to CDCA	124
9.45	SAA-I044: (input) Period BM Unit Demand Disconnection Volumes	124
9.46	CRA-I036: (output) Notification Agent Termination Request	125
9.47	ECVAA-I031: (output) Notification Agent Termination Feedback	125
9.48	ECVAA-I033: (input) Credit/Debit Reports	126
9.49	CDCA-I040: (output) BM Unit 'Credit Cover' Meter Volume Data Report	126
9.50	ECVAA-I015: (input) BM Unit 'Credit Cover' Meter Volume Data	126
9.51	BMRA-I027: (input) Settlement Reports	126
9.52	SAA-I049: Trading Unit Data	126
10	Interfaces From and To Transfer Coordinator	127
10.1	CRA-I023: Issue Registration Transfer Report	127
10.2	CRA-I038: Transfer from SMRS information	127
10.3	CRA-I039: Transfer from SMRS report	127
10.4	CRA-I040: Transfer to SMRS information	128

	10.5	CRA-I041: Transfer to SMRS report	128
	10.6	CDCA-I055: (input)Transfer from SMRS information	128
	10.7	CDCA-I056: (output)Transfer from SMRS report	129
	10.8	CDCA-I057: (input) Transfer to SMRS information	129
	10.9	CDCA-I058: (output) Transfer to SMRS report	129
<u>11</u>	In	nterfaces From and To EMR Settlement Services Provider	130
	11.1	SAA-I042: (output) BM Unit Gross Demand Report	130
1-	——Ir	ntroduction	9
_	1.1	Purpose	9
		Summary	9
	1.2	- Scope	9
	1.2.1	The Scope of this Document	9
	1.3	Summary	9
		Amendment History	
		References	
	1.6	Abbreviations	12
2		ommon Interface Conventions	13
=	2.1	Interface Mechanisms	
	2.1.1-	Manual San	13
	2.1.2	Electronic Data File Transfer	13
	2.1.3	Internal Interfaces	15
	2.1.4	Repeating Structure	15
	<u>2.1.5</u>	File names	15
	2.1.6	Unstructured File Format	16
	2.1.7	Acknowledgement Messages and Sequence Numbers	16
	<u>2.1.8</u>	<u>Time</u>	16
	<u>2.1.9</u>	<u>Valid Sets</u>	16
<u>3</u> _	<u>E</u>	xternal Interface Summary	18
	<u>3.1</u>	Interfaces by BSC Agent	18
	<u>3.1.1</u>	BMRA Interfaces	18
	<u>3.1.2</u>	CDCA Interfaces	19
	<u>3.1.3</u>	CRA Interfaces	19
	<u>3.1.4</u>	ECVAA Interfaces	21
	<u>3.1.5</u>	SAA Interfaces	22
	<u>3.2</u>	Interfaces by Corresponding Party	24
	<u>3.2.1</u>	BSCCo Ltd Interfaces	24
	<u>3.2.2</u>	FAA Interfaces	26
	<u>3.2.3</u>	System Operator Interfaces	26

	<u>3.2.4</u>	Stage 2 Interfaces	 27
	<u>3.2.5</u>	<u>Transfer Coordinator Interfaces</u>	 27
	<u>3.2.6</u>	Internal Interfaces	 27
	<u>3.2.7</u>	EMR Settlement Services Provider Interfaces	 28
<u>4</u>	<u>Ir</u>	nterfaces From and To Multiple Parties	<u>29</u>
	<u>4.1</u>	-CRA 1004: (input) BSC Service Agent Details	29
	<u>4.2</u>	CRA 1013: (output) Issue Authentication Report	30
	<u>4.3</u>	CRA 1015: (output) BM Unit, Interconnector and GSP Group Data	32
	<u>4.4</u>	CRA 1020: (output) Operations Registration Report	34
	<u>4.5</u>	CRA 1028: (output) NGC Standing Data Report	36
	<u>4.6</u>	ECVAA 1016: (output) ECVAA Data Exception Report	37
	<u>4.7</u>	ECVAA I025: (output) Credit Cover Minimum Eligible Amount Report	37
	<u>4.8</u>	SAA-I013: (output) Credit/Debit Reports	38
<u>5</u> _	<u>Ir</u>	nterfaces From and To System Operators	39
_	5.1 ——	BMRA 1002: (input) Balancing Mechanism Data	39
	5.2	BMRA 1003: (input) System Related Data	40
	<u>5.3</u>	BMRA 1010: (output, common) Data Exception Reports	41
	<u>5.4</u>	BMRA-I014: (input) Price Adjustment Data	42
	<u>5.5</u>	BMRA 1020: (input) BM Unit Fuel Type List	43
	5.6	BMRA 1021: (input) Temperature Reference Data	43
	<u>5.7</u>	BMRA 1022: (input) Daily Energy Volume Reference Data	44
	<u>5.8</u>	BMRA 1023: (input) Wind Generation Registered Capacities	44
	<u>5.9</u>	BMRA 1034: (input) Trading Unit Data	45
	<u>5.10</u>	CDCA-I012: (output, part 1) Report Raw Meter Data	45
	<u>5.11</u>	CDCA-I029: (output, part 1) Aggregated GSP Group Take Volumes	45
	<u>5.12</u>	CDCA-I042: (output, part 1) BM Unit Aggregation Report	45
	<u>5.13</u>	CDCA-I049: (output) Total Demand per GSP	45
	<u>5.14</u>	CDCA-I051: (output) Report Meter Technical Details	46
	<u>5.15</u>	CDCA-I067: (input) Disconnected CVA BM Units	46
	<u>5.16</u>	CRA 1007: (input/output) Boundary Point and System Connection Point Data	46
	<u>5.17</u>	CRA 1008: (input) Interconnector Registration Details	46
	<u>5.18</u>	CRA I013: (output, common) Issue Authentication Report	46
	<u>5.19</u>	CRA I014: (output, part 1) Registration Report	46
	<u>5.20</u>	CRA 1020: (output) Operations Registration Report	46
	<u>5.21</u>	CRA 1028: (output) NGC Standing Data Report	46
	<u>5.22</u>	SAA I012 (input, part 1) Dispute Notification	46
	5.23	SAA-I014 (output) Settlement Report	47

	<u>5.24</u>	SAA I017: (output, common) SAA Data Exception Report	51
	<u>5.25</u>	SAA-I018 (output, part 1) Dispute Report	51
	<u>5.26</u>	SAA 1026: (input) Price Adjustment Data	52
	<u>5.27</u>	SAA I033: (input) Receive Request for Data Change	53
	<u>5.28</u>	BMRA 1024: (input) Large Combustion Plant Directive Spreadsheet	53
	<u>5.29</u>	BMRA-I025: (input) SO-SO Prices	5 4
	<u>5.30</u>	BMRA 1026: (input) SO SO Standing Data	55
	<u>5.31</u>	BMRA 1028: (input) Receive REMIT Data	55
	<u>5.32</u>	BMRA 1029: (input) Receive Transparency Regulation Data	56
<u>6</u>	<u>I</u>	nterfaces From and To FAA	-57
	<u>6.1</u>	CRA 1004: (input, common) BSC Service Agent Details	57
	<u>6.2</u>	CRA 1013: (output, common) Issue Authentication Report	57
	<u>6.3</u>	CRA 1015: (output, common) BM Unit and Energy Account Registration Data	57
	<u>6.4</u>	ECVAA 1006: (input) Credit Limit Data	57
	<u>6.5</u>	ECVAA I016: (output, common) ECVAA Data Exception Report	58
	6.6	SAA I011: (input) Payment Calendar Data	58
	6.7	SAA I013: (output, common) Credit/Debit Reports	58
7	I	nterfaces From and To BSCCo Ltd	_ 5 9
	7.1	BMRA I010: (output, common) Data Exception Reports	59
	7.2	BMRA I011: (output) Performance Reports	59
	7.3	BMRA I012: (input) System Parameters	60
	7.4	BMRA I013: (output) BMRA BSC Section D Charging Data	61
	7.5	CDCA-I014: (output, part 1) Estimated Data Report	62
	7.6	BMRA 1016: (input) Receive Market Index Data Provider Thresholds	63
	7.7	BMRA I017: (output) Report Market Index Data Provider Thresholds	64
	7.8	CDCA-I018: (output, part 1) MAR Reconciliation Report	65
	7.9	CDCA-I019: (output, part 1) MAR Remedial Action Report	65
	7.10	CDCA-I022: (input) Distribution Line Loss Factors	65
	7.11	CDCA-I023: (output) Missing Line Loss Factors	66
	7.12	CDCA-I032: (output) Data Collection and Aggregation Performance Report	67
	7.13	CDCA I047: (output, part 1) Correspondence Receipt Acknowledgement	- 68
	7.14	CDCA-I061 (input) Receive System Parameters	- 68
	<u>7.15</u>	CDCA-I062: (input) Receive Sample Settlement Periods	68
	7.16	CDCA-I063: (output) Metered Volume Data for Sample Settlement Periods	- 69
	<u>7.17</u>	CDCA-I064: (output) MOA Proving Tests Report	70
	7.18	CDCA-I065: (output) MOA Fault Resolution Report	71

7.2	<u>20</u>	CRA 1003: (input, part 1) BSC Party Agent Registration Data	72
7.2	<u>21</u>	CRA-I004: (input, common) BSC Service Agent Details	72
7.2	<u> 22</u>	CRA 1009: (input) Receive Manual Credit Qualifying Flag	72
7.2	<u> 23</u>	CRA-I011: (input) Credit Assessment Load Factors	72
7.2	<u>24</u>	CRA-I020: (output, common) Operations Registration Report	73
7.2	<u> 25</u>	CRA-I028: (output) NGC Standing Data Report	73
7.2	<u>26</u> —	CRA-I029: (input) Transmission Loss Factors	73
7.2	<u> 27</u>	CRA-I032: (output) CRA Performance Reports	74
7.2	<u> 28</u>	CRA-I034: (input) Flexible Reporting Request	74
7.2	<u> 29</u>	CRA-I035: (output) CRA BSC Section D Charging Data	75
7.3	<u> 30</u>	CRA-I042: (input) Receive Market Index Data Provider Registration Data	75
7.3	<u>31</u>	CRA I043: (input) Receive Exempt Export Registration Data	76
7.3	<u>32</u>	CRA-I044: (input) Withdrawals Checklist Request	77
7.3	<u> 33</u>	CRA-I047: (output) Withdrawals Checklist	77
7.3	<u>34</u>	ECVAA I017: (output) ECVAA Performance Report	78
7.3	<u> 35</u>	ECVAA 1021: (output) Credit Limit Warning	79
7.3	<u>36</u>	ECVAA 1023: (output) ECVAA BSC Section D Charging Data	79
7.3	<u> 37</u>	ECVAA 1026: (output) Minimum Eligible Amount Request	80
7. 3	<u> </u>	ECVAA I027: (input) Notification of BSC Parties in Section H Default	80
7.3	<u> 39</u>	ECVAA-I032: (input) Credit Assessment Price	81
7.4	10 —	ECVAA I040: (output) Issue Notification System Status Report	81
7.4	11 —	ECVAA I041: Receive Party Credit Default Authorisation Details	82
7.4	<u>12</u>	SAA 1010: (input) BSCCo Ltd Cost Data (Redundant)	82
7.4	<u>13</u>	SAA-I012: (input, part 1) Dispute Notification	83
7.4	<u>14</u>	SAA-I014 (output) Settlement Reports	83
7.4	<u> 15</u>	SAA-I016: (output, part 1) Settlement Calendar	85
7.4	16	SAA-I018: (output, part 1) Dispute Report	85
7.4	17	SAA-I019: (output) BSC Party Performance Reports (Redundant)	85
7.4	<u> 18</u>	SAA I020: (output) SAA Performance Reports	86
7.4	<u> 19</u>	SAA-I023: (input) System Parameters	87
7.5	<u>50</u> —	SAA 1025: (output) SAA BSC Section D Charging Data	87
7.5	<u>51</u>	SAA I027: (output) Report pre-settlement run validation failure	88
7.5	<u>52</u> —	SAA-I028: (input) Receive settlement run decision	88
7.5	<u>53</u> —	SAA I029: (input) Receive settlement run instructions	89
7.5	<u>54</u>	SAA I031: (input) Receive Market Index Data Provider Thresholds	90
7.5	<u> 55</u>	SAA I032: (output) Report Market Index Data Provider Thresholds	91
7.5	<u>56</u>	SAA I034: (output) Report Recommended Data Change	91

	7.57	SAA 1035: (input) Receive Instruction for Data Change	-92
	<u>7.58</u>	SAA-I036: (output) Report Confirmation of Data Change	<u>92</u>
	<u>7.59</u>	SAA I038: (input) Receive Excluded Emergency Acceptance Pricing Information	93
	7.60	SAA I039: (output) Send Excluded Emergency Acceptance Dry Run Results	-93
	7.61	SAA I040: (input) Receive Authorisation To Proceed With Full Settlement Run	94
	7.62	ECVAA I049: (input) Request to remove all ECVNs and MVRNs from ECVA/Party in Section H Default	1 for a 94
	7.63	ECVAA I050: (output) Remove all ECVNs and MVRNs from ECVAA for a P Section H Default Feedback.	arty in 95
	7.64	BMRA 1033: (Input) STOR Availability Window	-96
	7.65	SAA 1046: (Input) STOR Availability Window	-96
	7.67	SAA 1047 (input) BSCCo Calculated SBR Imbalance Price	97
	7.68	SAA I048 (output) SBR Imbalance Price Discrepancy Notice	-97
<u>8</u> -		Interfaces From and To Stage 2	98
	<u>8.1</u>	CDCA-I043: (output) GSP Group Take to SVAA	-98
	<u>8.2</u>	CRA 1004: Agent Details	-99
	<u>8.3</u>	SAA 1007: (input) BM Unit Allocated Demand Volume	-99
	<u>8.4</u>	SAA-I016: (output, part 1) Settlement Calendar	99
	<u>8.5</u>	SAA I017: (output, common) SAA Data Exception Report	-99
	<u>8.6</u>	CRA I015: (output) BM Unit Registration Data	100
	<u>8.7</u>	BMRA 1032: (output) Demand Control Instructions to SVAA	100
	<u>8.8</u>	SAA I045: (input) BM Unit Allocated Demand Disconnection Volume	101
<u>9</u> _		-Interfaces Within BSC Central Systems	102
_	<u>9.1</u>	BMRA I001 (input): Registration Data	102
	<u>9.2</u>	BMRA 1007 (output) SAA/ECVAA Balancing Mechanism Data	102
	<u>9.3</u>	BMRA 1010: (output, common) Data Exception Reports	103
	<u>9.4</u>	BMRA-I018: (input) Publish Credit Default Report	103
	<u>9.5</u>	CDCA-I002: (input) Registration Data	103
	9.6	CDCA-I016: (input) Information from TAA	103
	<u>9.7</u>	CDCA-I020: (input) Site Visit Inspection Report	104
	<u>9.8</u>	CDCA-I027: (output) Aggregated Interconnector Meter Flow Volumes	104
	<u>9.9</u>	CDCA-I028: (output) Aggregated BM Unit Meter Flow Volumes	105
	9.10	CDCA-I034:Settlement Calendar	105
	<u>9.11</u>	CDCA-I035: (input) Site Visit Report on Aggregation Rule Compliance	105
	9.12		106
	9.13		106
	9.14		107
	9.15		107

<u>9.16</u>	CDCA-I068: (output) Period BM Unit Demand Disconnection Volumes	107
<u>9.17</u>	<u>CRA-I010</u>	107
<u>9.18</u>	CRA-I013: (output, common) Issue Authentication Report	107
<u>9.19</u>	CRA-I015: (output, common) BM Unit and Energy Account Registration Data	107
<u>9.20</u>	CRA 1017 (output): Credit Assessment Capability	107
<u>9.21</u>	CRA-I019: (output) Registration Data	109
<u>9.22</u>	CRA 1022: (output) Metering System Details	111
<u>9.23</u>	CRA 1030: (input) Data Exception Reports	111
<u>9.24</u>	CRA 1045: (input) Withdrawing Party Authorisation and Notification Details	111
<u>9.25</u>	CRA 1046: (input) Withdrawing Party Settlement Details	111
9.26	See SAA-1037 in this section. ECVAA-1001 (input): Registration Data	112
<u>9.27</u>	ECVAA-I011: Account Bilateral Contract Volume Report	112
<u>9.28</u>	ECVAA I012: MVRN Report	113
<u>9.29</u>	ECVAA-I016: (output, common) ECVAA Data Exception Report	113
9.30	ECVAA 1020: (input) Data Exception Reports	113
<u>9.31</u>	ECVAA 1036: (output) Publish Credit Default Report	114
<u>9.32</u>	ECVAA I047: (output) Withdrawing Party Authorisation and Notification Details	115
<u>9.33</u>	ECVAA I048 (input) Physical Notification Data	115
<u>9.34</u>	SAA-I013: (output) Credit/Debit	115
<u>9.35</u>	SAA-I001 (input): Registration Data	115
9.36	SAA-I002 (input): Credit Assessment Capability	115
<u>9.37</u>	SAA 1003 (input) SAA Balancing Mechanism Data	115
<u>9.38</u>	SAA 1004: (input) Period Meter Data	116
<u>9.39</u>	SAA 1008: MVRN Report	116
9.40	<u>SAA 1015</u>	116
<u>9.41</u>	SAA-I016: (output, part 1) Settlement Calendar	116
9.42	SAA I017: (output, common) SAA Data Exception Report	116
<u>9.43</u>	SAA 1037: (output) Withdrawing Party Settlement Details	116
<u>9.44</u>	SAA-I043: (output) Demand Control Instructions to CDCA	117
<u>9.45</u>	SAA I044: (input) Period BM Unit Demand Disconnection Volumes	117
9.46	CRA 1036: (output) Notification Agent Termination Request	118
<u>9.47</u>	ECVAA 1031: (output) Notification Agent Termination Feedback	118
<u>9.48</u>	ECVAA-I033: (input) Credit/Debit Reports	119
<u>9.49</u>	CDCA-I040: (output) BM Unit 'Credit Cover' Meter Volume Data Report	119
<u>9.50</u>	ECVAA-I015: (input) BM Unit 'Credit Cover' Meter Volume Data	119
<u>9.51</u>	BMRA-I027: (input) Settlement Reports	119
<u>9.52</u>	SAA-1049: Trading Unit Data	119

<u>10</u>	- <u>Interfaces From and To Transfer Coordinator</u>	120
<u>10.1</u>	CRA 1023: Issue Registration Transfer Report	120
<u>10.2</u>	CRA 1038: Transfer from SMRS information	120
<u> 10.3</u>	CRA 1039: Transfer from SMRS report	120
<u>10.4</u>	CRA 1040: Transfer to SMRS information	121
<u> 10.5</u>	CRA 1041: Transfer to SMRS report	121
<u>10.6</u>	CDCA-I055: (input)Transfer from SMRS information	121
<u>10.7</u>	CDCA 1056: (output)Transfer from SMRS report	122
<u>10.8</u>	CDCA 1057: (input) Transfer to SMRS information	122
<u>10.9</u>	CDCA-I058: (output) Transfer to SMRS report	122
<u>11</u>	-Interfaces From and To EMR Settlement Services Provider	123
— 11.1 -	SAA 1042: (output) BM Unit Gross Demand Report	123



1 Introduction

1.1 **Purpose**

1.1.1 Summary

This document is Part 2 of the Interface Definition and Design

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

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

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

- **Distribution Business**
- **Distribution System Operator**
- Public Distribution System Operator (and abbreviation PDSO)
- **Distribution Company**
- Public Electricity Suppliers (PES), as operators of a distribution network
- Distributor, as operator of a distribution network. Dentation

1.2 Scope

1.2.1 The Scope of this Document

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

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

1.3 Summary

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

- Section 2 describes common interface conventions, in particular defining the approach to interfacing via file transfer.
- Section 2.1 gives a summary of the interfaces, organised by BSC agent and by corresponding party.

- Sections 4 to 8 and 10 to 11 define the interfaces to each of the corresponding parties.
- Section 9 defines interfaces between the BSC agents.



1.4 Amendment History

Date	Version	Details of Change	Committee Approval Ref
04/11/2010	26.0	Document rebadged and amended for November 2010 Release (P243, P244, CP1333)	
03/11/2011	27.0	November 2011 Release (CP1345, P253)	
28/06/2012	28.0	June 2012 Release (CP1364)	
26/06/2014	29.0	26 June 2014 Release (CP1397)	ISG150/02
01/08/2014	30.0	ORD005 – Electricity Market Reform Directed by the Secretary of State	Directed by the Secretary of State
06/11/2014	31.0	6 November 2014 Release (CP1412)	ISG159/01
16/12/2014	32.0	16 December 2014 Release (P291, P295)	ISG162/01
25/06/2015	33.0	June 2015 Release (CP1435)	ISG168/02
		June 2015 Release (P310 Self-Governance)	ISG169/05
05/11/2015	34.0	November 2015 Release (P323)	P245/06
		November 2015 Release (P305)	ISG172/04
23/02/17	35.0	February 2016 Release (P326 Self-Governance Alternative)	ISG188/05
29/06/17	36.0	29 June 17 Release (P321 Self-Governance, P350)	ISG194/02
02/11/2017	37.0	P342 Alternative. 2 November 2017 Release	ISG198/04
01/11/2018	38.0	CP1503; 1 November 2018 Release	P277/04
28/02/19	39.0	February 2019 Release – P344	P284C/01
		February 2019 Release – P359	<u>ISG212/03</u>

1.5 References

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

[NGCSPEC]	NGC Control Technology Specification: NETA BMRA & SAA Interface Specification

1.6 Abbreviations

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

2 Common Interface Conventions

2.1 Interface Mechanisms

This section outlines the different interface mechanisms used.

2.1.1 Manual

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

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

- for flows submitted by post or fax, the signatory's signature is required;
- for those flows which are submitted by email, the sending email address must be that registered for the signatory.

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

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

2.1.2 Electronic Data File Transfer

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

2.1.2.1 Common File Format

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

2.1.2.2 NGC File Format

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

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

The files use the ASCII character set.

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

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

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

All other interfaces with the System 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 System Operator from CSV to XML. Our intention (subject to confirmation when assessing the relevant Modification Proposals or Change Proposals) is that all new or amended files provided by the System Operator, whether in relation to BMRA-I002, BMRA-I003 or any other relevant interface requirement, will make use of an XML format. The details of this format will be agreed with the System Operator closer to the time, and will then be defined in [NGCSPEC].

2.1.2.3 Pool Transfer File Format

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

The files use the ASCII character set.

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

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

2.1.2.4 Interfaces to EMR

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

2.1.3 Internal Interfaces

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

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

2.1.4 Repeating Structure

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

2.1.4.1 The Tabs of the Spreadsheet

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

2.1.5 File names

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

character 1: Sender role code (Pool format)

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

characters 6-14: Unique identifier.

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

2.1.6 Unstructured File Format

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

2.1.7 Acknowledgement Messages and Sequence Numbers

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

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

2.1.8 Time

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

2.1.9 Valid Sets

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

2.1.9.1 Activity

See Part 1, section 2.2.11.1

2.1.9.2 **BMRA** Exception Type

One of the values:

'B' (Balancing Mechanism Data Incomplete)

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

2.1.9.3 BM Unit Type

See Part 1, section 2.2.11.2

2.1.9.4 Charge Type

One of the values:

'A' (Administration Charge)

'E' (Energy Imbalance Cashflows)

'I' (Information Imbalance Charges)

'N' (Non-delivery Charge)

'R' (Residual Cashflow Reallocations)

'B' (BM Payments)

'S' (System Operator Charges)

2.1.9.5 Organisation Type

See Part 1, section 2.2.11.9

2.1.9.6 Run Type

See Part 1, section 2.2.11.13

Pendino Implementation

External Interface Summary 3

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

3.1 **Interfaces by BSC Agent**

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

3.1.1 **BMRA** Interfaces

Agent-id	Name	Dir'n	User	Туре
BMRA-1002	Balancing Mechanism Data	from	SO	Electronic data file transfer, NGC File Format
BMRA-I003	System Related Data	from	SO	Electronic data file transfer, NGC File Format
BMRA-1007	SAA/ECVAA Balancing Mechanism Data	to	SAA (1003) ECVAA (1048)	Electronic data file transfer
BMRA-I011	Performance Reports	to	BSCCo Ltd	Manual
BMRA-I012	System Parameters	from	BSCCo Ltd	Manual
BMRA-I013	BMRA BSC Section D Charging Data	to	BSCCo Ltd	Manual
BMRA-I014	Price Adjustment Data	from	SO	Automatic
BMRA-I016	Receive Market Index Data Provider Thresholds	from	BSCCo Ltd	Manual
BMRA-I017	Report Market Index Data Provider Thresholds	То	BSCCo Ltd	Manual
BMRA-I018	Publish Credit Default Notices	from	ECVAA (1036)	Electronic data file transfer
BMRA-I020	BM Unit Fuel Type List	from	SO	Manual
BMRA-I021	Temperature Reference Data	from	SO	Manual
BMRA-I022	Daily Energy Volume Reference Data	from	so	Manual
BMRA-I023	Wind Generation Registered Capacities	from	so	Manual
BMRA-1024 ¹	Large Combustion Plant Directive Spreadsheet	from	BSCCo Ltd	Manual
BMRA-I025	SO-SO Prices	from	so	Automatic
BMRA-i026	SO-SO Standing Data	from	so	Manual
BMRA-1027	Settlement Report	from	SAA (I014)	Electronic data file transfer
BMRA-I028	Receive REMIT Data	From	so	Electronic data file transfer
BMRA-I029	Receive Transparency Data	From	so	Electronic data file transfer
BMRA-1032	Demand Control Instructions to SVAA	То	SVAA	Electronic data file transfer
BMRA-1033	STOR Availability Window	From	BSCCo	Manual
BMRA-1034	Trading Unit Data	From	SAA (I049)	Electronic data file transfer

 $^{^{1}~\}mathrm{P226}$

3.1.2 **CDCA** Interfaces

Agent-id	Name	Dir'n	User	Туре
CDCA-I016	Metering System Details Request	from	TAA	Manual
CDCA-I020	Site Visit Inspection Report	from	CDCA Site Visit	Manual
			Agent	
CDCA-I022	Distribution Line Loss Factors	From	BSCCo Ltd	Electronic data file transfer
CDCA-I023	Missing Line Loss Factors	То	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 (1004)	via shared database
CDCA-I032	Data Collection and Aggregation Performance Report	to	BSCCo Ltd	Manual
CDCA-I035	Site Visit Report on Aggregation Rule compliance	from	CDCA Site Visit Agent	Manual
CDCA-I036	GSP Group Take to SAA	to	SAA (I004)	via shared database
CDCA-I039	Exchange of information with TAA	to	TAA	Manual
CDCA-I040 ²	BM Unit 'Credit Cover' Meter Volume Data Report	То	ECVAA (I015)	Electronic data file transfer
CDCA-I043	GSP Group Take to SVAA	to	SVAA	Electronic data file transfer, Pool Transfer File Format
CDCA-I049	Total Demand per GSP	to	SO	Electronic data file transfer
CDCA-I051	Report Meter Technical Details	to	SO	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		SO , Distribution Business	Manual
CDCA-I068	Aggregated BM Unit Disconnection Volumes	То	SAA	Via shared database

3.1.3 **CRA** Interfaces

Agent-id	Name	Dir'n	User	Туре
CRA-I001	BSC Party Registration Data	From	BSCCo Ltd	Manual
CRA-I004	BSC Service Agent Details	from	BSCCo Ltd	Manual
CRA-I004	BSC Service Agent Details	from	BSC Service Agents	Manual
CRA-I004	BSC Service Agent Details	from	FAA	Manual
CRA-I004	BSC Service Agent Details	from	SVAA	Manual
CRA-I007	Boundary Point and System Connection Point Registration Data	from	SO	Manual
CRA-I007	Boundary Point and System Connection Point Registration Data	То	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

² P215

Agent-id	Name	Dir'n	User	Туре
CRA-I013	Issue Authentication Report	to	SO	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 (1002)	Via shared database
CRA-I019	Registration Data	to	CDCA (1002)	Via shared database
CRA-I020	Operations Registration Report	to	BSCCo Ltd	Electronic data file transfer
CRA-I020	Operations Registration Report	to	SO	Electronic data file transfer
CRA-I022	Metering System Details	to	TAA (I015)	Manual
CRA-I023	Issue Registration Transfer Report	to	Transfer Coordinator	Manual
CRA-I028	NGC Standing Data Report	to	BSCCo Ltd	Electronic data file transfer
CRA-I028	NGC Standing Data Report	to	SO	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	sŏ	Manual
CRA-I035	CRA BSC Section D Charging Data	to	BSCCo Ltd	Electronic data file transfer
CRA-I036	Notification Agent Termination Request	То	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	<u>from</u>	BSCCo Ltd	<u>Manual</u>

3.1.4 ECVAA Interfaces

Agent-id	Name	Dir'n	User	Туре
ECVAA-I006	Credit Limit Data	from	FAA	Electronic data file
				transfer
ECVAA-I011	Account bilateral Contract Volume	to	SAA (1008)	Electronic data file
	Report			transfer
ECVAA-I012	MVR Notification Report	to	SAA (1008)	Electronic data file
				transfer
ECVAA-I015 ³	Receive BM Unit Credit Cover Meter	From	CDCA (1040)	Electronic data file
	Volume Data			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		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 (1036)	Manual
ECVAA-I031	Notification Agent Termination Feedback	То	CRA (1037)	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 (1007)	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

³ P215

Balancing and Settlement Code

3.1.5 SAA Interfaces

Agent-id	Name	Dir'n	User	Туре
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 (1033)	Electronic data file transfer
SAA-I014	Settlement Report	to	SO	Electronic data file transfer
SAA-I014	Settlement Report	to	BSCCo Ltd	Electronic data file transfer
SAA-I014	Settlement Report	to	BMRA (1027)	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
	*/5			
SAA-I025	SAA BSC Section D Charging Data	to	BSCCo Ltd	Electronic data file transfer
SAA-I026	Price Adjustment Data	from	SO	Automatic
SAA-I027	Report pre-settlement run validation failure	to	BSCCo Ltd	Manual
SAA-I028	Receive settlement run decision	from	BSCCo Ltd	Manual
SAA-I029	Receive settlement run instructions	from	BSCCo Ltd	Manual
SAA-I031	Receive Market Index Data Provider Thresholds	From	BSCCo Ltd	Manual
SAA-I032	Report Market Index Data Provider Thresholds	to	BSCCo Ltd	Manual
SAA-I033	Receive Request for Data Change	from	SO	Manual
SAA-I034	Report Recommended Data Change	to	BSCCo Ltd	Manual
SAA-I035	Receive Instruction for Data Change	from	BSCCo Ltd	Manual
SAA-I036	Report Confirmation of Data Change	to	BSCCo Ltd	Manual
SAA-I037	Withdrawing Party Settlement Details	to	CRA (I046)	Manual
SAA-I038	Excluded Emergency Acceptance Pricing Information	from	BSCCo Ltd	Manual
SAA-I039	Send Excluded Emergency Acceptance Dry Run Results	to	BSCCo Ltd	Manual
SAA-I040	Receive Authorisation To Proceed With Full Settlement Run	from	BSCCo Ltd	Manual
SAA-I041	BM Unit SVA Gross Demand Data File	from	SVAA	Electronic data file transfer, Pool Transfer File Format
SAA-I042	BM Unit Gross Demand Report	to	CFD Settlement Services Provider	Electronic data file transfer, XML
SAA-I043	Demand Control Instructions to CDCA	to	CDCA	Via shared database
SAA-I044	Period BM Unit Demand Disconnection Volumes	from	CDCA	Via shared database
SAA-I045	BM Unit Allocated Disconnection Demand Volume	from	SVAA	Electronic data file transfer, Pool Transfer File Format

Agent-id	Name	Dir'n	User	Туре
SAA-I046	STOR Availability Window	From	BSCCo	Manual
SAA-I047	BSCCo Calculated SBR Imbalance Price	From	BSCCo	Manual
	SBR Imbalance Price Discrepancy Notice	То	BSCCo	Manual
SAA-I049	Trading Unit Data	То	BMRA (1034)	Electronic data file transfer

3.2 Interfaces by Corresponding Party

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

3.2.1 BSCCo Ltd Interfaces

Dir'n	User	Agent-id	Name	Туре
То	SO	BMRA-I010	Data Exception Reports	Electronic data file transfer
То	BSCCo Ltd	BMRA-I011	Performance Reports	Manual
from	BSCCo Ltd	BMRA-I012	System Parameters	Manual
То	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
То	BSCCo Ltd	BMRA-I017	Report Market Index Data Provider Thresholds	Manual
from	BSCCo Ltd	BMRA-I024	Large Combustion Plant Directive Spreadsheet ⁴	Manual
to	BSCCo Ltd	CDCA-I018	MAR Reconciliation Report (Part 1)	Manual
to	BSCCo Ltd	CDCA-I019	MAR Remedial Action Report (Part 1)	Manual
from	BSCCo Ltd	CDCA-I022	Distribution Line Loss Factors	Electronic data file transfer
То	BSCCo Ltd	CDCA-I023	Missing Line Loss Factors	Manual
То	BSCCo Ltd	CDCA-I032	Data Collection and Aggregation Performance Report	Manual
from	BSCCo Ltd	CDCA-I043	Receive Exempt Export Registration Data	Manual
То	BSCCo Ltd	CDCA-I047	Correspondence Receipt Acknowledgement (Part 1)	Manual
from	BSCCo Ltd	CDCA-I061	Receive System Parameters	Manual
From	BSCCo Ltd	CDCA-I062	Receive Sample Settlement Periods ⁵	Manual
То	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
То	BSCCo Ltd	CRA-I007	Boundary Point and System Connection Point Registration Data (Part 1)	Manual
from	BSCCo Ltd	CRA-I011	CALF	Manual

 $^{^4\,\}mathrm{P226}$

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

Dir'n	User	Agent-id	Name	Туре
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
<u>from</u>	BSCCo Ltd	<u>CRA-I050</u>	GC or DC Breach Estimation Challenge Decision	<u>Manual</u>
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	49 Request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default	
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
То	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
То	BSCCo Ltd	SAA-I025	SAA BSC Section D Charging Data	Electronic data file transfer
То	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-1032	Report Market Index Data Provider Manual Thresholds	
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-1038	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

Dir'n	User	Agent-id	Name	Туре
from	BSCCo Ltd	BMRA-I033	STOR Availability Window	Manual
from	BSCCo Ltd	SAA-I046	STOR Availability Window	Manual
From	BSCCo Ltd	SAA-I047	BSCCo Calculated SBR Imbalance Price	Manual
То	BSCCo Ltd	SAA-I048	SBR Imbalance Price Discrepancy Notice	Manual



3.2.2 FAA Interfaces

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

3.2.3 System Operator Interfaces

Dir'n	User	Agent-id	Name	Туре
from	SO	BMRA-I002	Balancing Mechanism Data	Electronic data file transfer, NGC
		70		File Format
from	so	BMRA-I003	System Related Data	Electronic data file transfer, NGC
		407		File Format
to	SO		Data Exception Reports	Electronic data file transfer
from	SO		Price Adjustment Data	Automatic
from	SO		BM Unit Fuel Type List	Manual
from	SO	BMRA-I021	Temperature Reference Data	Manual
from	SO	BMRA-I022	Daily Energy Volume Reference Data	Manual
from	SO	BMRA-I023	Wind Generation Registered Capacities	Manual
from	SO	BMRA-I025	SO-SO Prices	Automatic
from	SO	BMRA-I026	SO-SO Standing Data	Manual
to	SO	CDCA-i012	Report Raw Meter Data (Part 1)	Electronic Data File Transfer
to	SO	CDCA-I014	Estimated Data Report (Part 1)	Electronic data file transfer
to	SO	CDCA-I029	Aggregated GSP Group Take Volumes (Part 1)	Electronic Data File Transfer
to	SO	CDCA-I042	BM Unit Aggregation Report (Part 1)	Electronic Data File Transfer
to	SO	CDCA-1049	Total Demand Per GSP	Electronic data file transfer
to	SO	CDCA-I051	Report Meter Technical Details	Manual
from	SO	CRA-1007	Boundary Point and System	Manual
			Connection Point Registration Data	
from	SO	CRA-I008	Interconnector Registration Details	Manual
to	SO	CRA-I013	Issue Authentication Report	Electronic data file transfer
to	SO	CRA-I014	Registration Report (Part 1)	Electronic Data File Transfer
to	SO	CRA-I020	Operations Registration Report	Electronic data file transfer
to	SO	CRA-I028	NGC Standing Data Report	Electronic data file transfer
from	SO	CRA-I034	Flexible Reporting Request	Manual
from	SO	SAA-I012	Dispute Notification (Part 1)	Manual
to	SO	SAA-I014	Settlement Report	Electronic data file transfer
to	SO	SAA-I017	SAA Data Exception Report (Part 1)	Electronic data file transfer
to	SO	SAA-I018	Dispute Report (Part 1)	Manual
from	SO	SAA-I026	Price Adjustment Data	Automatic
from	SO	SAA-I033	Receive Request for Data Change	Manual
to	SO	SAA-I036	Report Confirmation of Data Change	Manual
from	SO	BMRA-I028	Receive REMIT Data	Electronic data file transfer
from	SO	BMRA-I029	Receive Transparency Data	Electronic data file transfer

3.2.4 Stage 2 Interfaces

Dir'n	User	Agent-id	Name	Туре
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-1007	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	Electronic data file transfer, Pool
			Disconnection Volume	Transfer File Format

3.2.5 Transfer Coordinator Interfaces

Dir'n	User	Agent-id	Name	Type
To	Transfer Coordinator	CRA-I023	Issue Registration Transfer Report	Manual
from	Transfer Coordinator	CRA-I038	Transfer from SMRS information	Manual
to	Transfer Coordinator	CRA-I039	Transfer from SMRS report	Manual
from	Transfer Coordinator	CRA-I040	Transfer to SMRS information	Manual
to			Transfer to SMRS report	Manual
from	Transfer Coordinator	CDCA-I055	Transfer from SMRS information	Manual
to	Transfer Coordinator	CDCA-1056	Transfer from SMRS report	Manual
from	Transfer Coordinator	CDCA-1057	Transfer to SMRS information	Manual
to	Transfer Coordinator	CDCA-I058	Transfer to SMRS report	Manual

3.2.6 Internal Interfaces

From	То	Name	Туре
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-1030	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-1040 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

 $^{^{\}rm 6}\,{\rm P215}$

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From	То	Name	Туре
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	Manual
		Notification Details	
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-1030	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	Via shared database
		Volumes	

3.2.7 EMR Settlement Services Provider Interfaces

Dir'n	User	Agent-id	Name	Туре
	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 4

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

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

Interface ID: CRA-l004 (EPFAL ref FAA-l033)	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. Pendino Implementation

Action Description

Authentication Details

Name Password

BSC Service Agent Details

Agent Name Agent Identifier

Service Agent Role Details

Agent Type Effective From Date Effective To Date

Role Address Details

Address Telephone No Fax No e-mail Address

Physical Interface Details:

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

4.2 **CRA-I013:** (output) Issue Authentication Report

Interface ID: From: CRA-I013 To: BMRA-I001 To: ECVAA-I001 To: SAA-I001 EPFAL Ref: FAA-I025	User: FAA ECVAA SAA SO 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 Polementation

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

Action Code
Market Index Data Provider Name
Market Index Data Provider ID

Market Index Data Provider Effective Dates

Action Code

Market Index Data Provider Details

Provider Effective From Settlement Date Provider Effective To Settlement Date

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

On request the CRA will provide the FAA with copies of sample signatures for Authorised Signatories.

Physical Interface Details:

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

Interface ID:	User:	Title:	BSC Reference:
From: CRA-I015	SAA,	BM Unit,	CRA BPM 3.8, SCH: 4, B, 2.5.2
To: SAA-I001	BMRA,	Interconnector and	RETA SCH: 4, B, 2.6.1 SAA SD:
To: BMRA-I001	ECVAA	GSP Group Data	2.7, 5.3.1, A1 SAA BPM: 3.1,
To: ECVAA-I001	FAA,	•	4.26, 4.6, CRA BPM 4.14,
EPFAL Ref: FAA-I026	Stage 2 MDDA		CP551, P100, P215
Mechanism:	Frequency:	Volumes:	
Shared database to	Daily		
SAA; Electronic Data			
File transfer to BMRA,			
ECVAA, FAA, SVAA			
(Pool Transfer File			
Format to Stage 2			
MDDA)			

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

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

Pegistration

Trading Unit Registration

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 Flag⁷

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)

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

Effective From Date Effective To Date

Joint BM Unit Details

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

Interconnector Registration Details

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

GSP Group Registration

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

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

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

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

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

Physical Interface Details:

4.4 **CRA-I020:** (output) Operations Registration Report

Interface ID: CRA-I020	User: BSCCo Ltd, SO	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 SO 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

chding Implementation Generation Capacity (MW)

Demand Capacity (MW)

WDCALF8

NWDCALF9

SECALF¹⁰

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

8 With the exception that any WDCALF value exceeding ±9.999999 shall be capped and reported as ±9.9999999 in the CRA-I020. The values of WDBMCAIC and WDBMCAEC reported in the CRA-I020 will still be derived using the 'real' uncapped WDCALF value. 9 With the exception that any NWDCALF value exceeding ±9.9999999 shall be capped and reported as ±9.9999999 in the CRA-I020. The values of NWDBMCAIC and NWDBMCAEC reported in the CRA-I020 will still be derived using the 'real' uncapped NWDCALF value. 10 With the exception that any SECALF value exceeding ±9.999999 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.

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.

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

Interface ID:	User:	Title:	BSC Reference:	
CRA-I028	System	NGC Standing Data	CR 991027 06a	
	Operator,	Report		
	BSCCo Ltd			
Mechanism:	Frequency:	Volumes:		
Electronic data file	As required	Very low volume		
transfer				
			SSP ID, Boundary Point ID,	
and Party ID's, issue a	report on the chang	e to the SO containing the	following.	
DCC Down Dataile				
BSC Party Details				
BSC Party ID BSC Party Nam	Δ			
DOC FAILY NAIII	G			
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				
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				
Inter-GSP-Connection I	Details	0		
Inter-GSP-Conn	nection ID	1		
		301		
Boundary Point Details		70.		
Boundary Point ID				
Mataria a Contrar Dataile				
Metering System Details Metering System ID				
Metering System ID				
——————————————————————————————————————				
Physical Interface Details:				
i nysicai interface	Details.		₹	

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

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

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

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

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

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

Interface Requirement:

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

The Credit/Debit Reports shall include:

Settlement Date Settlement Run Type BSC Party ID

Charge Type Indicator (may be one of):
 Administration Charge
 Energy Imbalance Cashflows
 Information Imbalance Charges
 Non-delivery Charge
 Residual Cashflow Reallocations
 Daily Party BM Unit Cashflow
 System Operator BM Cashflow
Charge

(Charge Type Indicator and Charge repeated for each charge type and for each BSC Party Id, including parties which have no charges in this run)

Physical Interface Details:

5 **Interfaces From and To System Operators**

5.1 BMRA-I002: (input) Balancing Mechanism Data

Interface ID: BMRA-I002	Source: System Operators	Title: Balancing Mechanism Data	BSC Reference: See verification table, P71, CP921, Variation 60, CP1223, P217, P305
Mechanism: Electronic data file transfer, NGC File Format	Frequency: Continuous (as made available from SO)	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 Control Notice to Deliver Bids File (INTEXT)

Minimum Zero Time File (MZT)

Minimum Non-Zero Time File (MNZT)

Stable Export Limit File (SEL)

The File (MDV)

The File (MDV)

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

Acceptance and Balancing Services Data

Bid-Offer Acceptance Level File (BOAL)

BM Unit Applicable Balancing Services Volume (QAS)

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

Acceptance and Balancing Services Data

Bid-Offer Acceptance Level Flagged File (BOALF)

BM Unit Applicable Balancing Services Volume (QAS)

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

Demand Control Instructions

STOR Availability Window

Loss of Load Probability and De-rated Margin Data

Loss of Load Probability

De-Rated Margin

Physical Interface Details:

Further clarification of the content of the input data from the SO is given below:

FPN (& QPN) data will arrive as pairs of points, each pair will have a from & to level and a from & to

There will ALWAYS be a pair starting at the beginning of a settlement period

There will ALWAYS be a pair ending at the end of a settlement period

pairs will not overlap

If there is more than one pair for a settlement period, the end time of one pair will be the start time of another (but with possibly different levels to indicate a step function)

Bid-Offer values will arrive as pairs of points, each pair will have a from & to level and a from & to time

For day 1, the from & to level will be the same

the level is relative - i.e. it is the width of the current band, so for BO set 1 the level is the increase from FPN; for set 2 the level is the increase from FPN + level 1

Bid-Offer acceptances are absolute.

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

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

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

5.2 BMRA-I003: (input) System Related Data

Interface ID: BMRA-1003	Source: System Operators	Title: System Related Data See verification table, P172, P243
Mechanism: Electronic data file transfer, NGC File Format	Frequency: Continuous (as made available from SO)	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)

Forecast national Surplus Data for 2-52 weeks File (OCNMFW)¹²
National Generating Plant Demand Margin, 2-14 Day (OCNMFD2)

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

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

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 System Operator provides a System Zone Map (in pdf) and a spreadsheet detailing the mapping between NGC and BM Units, for download from the BMRS.

Physical Interface Details:

In cases where Fuel Type data is unavailable, the affected Fuel Types are omitted from any relevant files submitted to the BMRA by the System Operator.

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

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

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

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

5.4 BMRA-I014: (input) Price Adjustment Data

Interface ID:	Source:	Title:	BSC Reference:
BMRA-I014	SO	Price Adjustment Data	P8, P78, CP1223, P217
Mechanism:	Frequency:	Volumes:	
Automatic	continuous	Settlement Date (a single period, or co	cally contain the data for one a file may contain data for a overing multiple dates). Data nent Period will normally

Interface Requirement:

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

Balancing Services Adjustment Data

Settlement Date

Settlement Period (1-50)

EBCA_j (Net Buy-Price Cost Adjustment)(Energy)

EBVA_j (Net Buy-Price Volume Adjustment)(Energy)

SBVA_i (Net Buy-Price Volume Adjustment) (System)

BPA_i (Buy-Price Price Adjustment)

ESCA_i (Net Sell-Price Cost Adjustment)(Energy)

ESVA_i (Net Sell-Price Volume Adjustment) (Energy)

SSVA_i (Net Sell-Price Volume Adjustment) (System)

SPA_i (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

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

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

Interface ID: BMRA-I020	Source: SO	Title: BM Unit Fuel Type List	BSC Reference: P220
Mechanism: Manual, MS Excel Spreadsheet, by email.	Frequency: As Necessary	Volumes: Infrequent, generally v	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
""active From Date

Physical Interface Details:

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

5.6 BMRA-I021: (input) Temperature Reference Data

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

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

Temperature Details

Calendar Date Normal Reference Temperature Low Reference Temperature High Reference Temperature

Physical Interface Details:

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

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

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

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

Volume Details

Calendar Date Normal Reference Volume Low Reference Volume High Reference Volume

Physical Interface Details:

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

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

Interface ID:	Source:	Title:	BSC Reference:
BMRA-I023	SO	Wind Generation	P220
		Registered	
		Capacities	
Mechanism:	Frequency:	Volumes:	
Manual, MS Excel	As Necessary	Infrequent, generally	when new Power Park Modules
Spreadsheet, by		are added	
email.		*C2	

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

Power Park Module Details

Power Park Module Identifier Power Park Module Name Registered Capacity (MW)

Total Registered Capacity of all Power Park Modules (MW)

Physical Interface Details:

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

The effective-from date of the Total Registered Capacity shall be included in the body of the email.

5.9 BMRA-I034: (input) Trading Unit Data

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

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

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

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

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

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

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

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

Interface ID:	User:	Title:	BSC Reference:
CDCA-I049	System Operator	Total Demand per	CDCA SD 19.5
		GSP	
	Ch		BPM IRR CDCA8, Clarification
	(0)	•	CR_991027_06a, CP527,
		5	CP559
Mechanism:	Frequency:	Volumes:	
Electronic data file	Daily, per	Of the order of hundre	eds of GSPs
transfer	aggregation run	10	

Interface Requirement:

Reports on aggregated meter flow volumes for each GSP in each GSP Group are sent to the thentation System Operator, as follows for each GSP Group:

GSP Group Id Settlement Date Settlement Run Type CDCA Run Number Date of aggregation GSP Id

> Settlement Period Import/Export indicator (I/E) **Estimate Indicator** Meter Volume

Note that, where one GSP feeds multiple GSP Groups, the data for that GSP will be repeated in the section for each of those GSP Groups, and in each case the total Meter Volume for the GSP will be shown; it will not be apportioned between the GSP Groups.

The Import/Export indicator indicates the direction of the energy flow: the Meter Volume is therefore unsigned.

Physical Interface Details:

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

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

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

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

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

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

5.17 CRA-I008: (input) Interconnector Registration Details

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

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

This interface is defined in Section 4.

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

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

5.20 CRA-I020: (output) Operations Registration Report

This interface is defined in Section 4.

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

This interface is defined in Section 4.

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

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

5.23 SAA-I014 (output) Settlement Report

There are three variants of the Settlement Report. The first variant is sent to BSC Parties and is defined in Part 1 of the IDD. The second variant is sent to the System Operator 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-1014	User: System Operator, BSCCo Ltd BMRA	Title: Settlement Report	BSC Reference: CR_991027_06a, CP527, P8, P18A, CP597, CP610, CP754, CP797, P71, P78, P194, P217,CP1397, P305
Mechanism: Electronic data file transfer	Frequency: Daily per settlement run	Volumes:	

The first part of the report contains general information:

Settlement Day Information

Settlement Date

Settlement Run Type

SAA Run Number

SAA CDCA Settlement Run Number

SVAA CDCA Settlement Date

SVAA CDCA Settlement Run Number

SVAA SSR Run Number

BSC Party Id

Settlement Period Information (for all Settlement Dates) Piplementation

Settlement Period (1-50) (j)

System Buy Price SBP_i £/MWh

System Sell Price SSP_i £/MWh

Total Demand (sum of all negative QMii)

Total Generation (sum of all positive QMij)

Information Imbalance Price 1 (£/MWh)

Information Imbalance Price 2 (£/MWh)

Arbitrage Flag

CADL_d Continuous Acceptance Duration Limit

DMAT_d De Minimis Acceptance Threshold

BPA_i (Buy Price Price Adjustment) (£/MWh)

SPA_i (Sell Price Price Adjustment) (£/MWh)

Total Period Applicable Balancing Services Volume (TQAS_i) (MWh)

Price Derivation Code (PDC_i)

Total NIV Tagged Volume (MWh)

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

EBCA_i (Net Energy Buy Price Cost Adjustment) (£)

EBVA_j (Net Energy Buy Price Volume Adjustment) (MWh)

SBVA, (Net System Buy Price Volume Adjustment) (MWh)

ESCAi (Net Energy Sell Price Cost Adjustment) (£)

ESVAi (Net Energy Sell Price Volume Adjustment) (MWh)

SSVAi (Net System Sell Price Volume Adjustment) (MWh)

Settlement Period Information (for post P217 Settlement Dates):

Total System Accepted Bid Volume

Total System Accepted Offer Volume

Total System Tagged Accepted Bid Volume

Total System Tagged Accepted Offer Volume

Total System Repriced Accepted Bid Volume

Total System Repriced Accepted Offer Volume

Total System Originally-priced Accepted Bid Volume

Total System Originally-priced Accepted Offer Volume

Total System Adjustment Sell Volume

Total System Adjustment Buy Volume

Total System Tagged Adjustment Sell Volume

Total System Tagged Adjustment Buy Volume

Total System Repriced Adjustment Sell Volume

Total System Repriced Adjustment Buy Volume

Total System Originally-priced Adjustment Sell Volume

Total System Originally-priced Adjustment Buy Volume

Replacement Price

Replacement Price Calculation Volume

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

STOR Availability Window Flag

Loss of Load Probability

De-rated Margin

Value of Lost Load

Reserve Scarcity Price

Market Index Information:

Market Index Data Provider

Individual Liquidity Threshold

Market Index Price

Market Index Volume

Balancing Services Adjustment Action Data (post P217 only):

Balancing Services Adjustment Action Id

Balancing Services Adjustment Action Cost (£)

Balancing Services Adjustment Action Volume

Tagged Balancing Services Adjustment Action Volume

Repriced Balancing Services Adjustment Action Volume

Originally-Priced Balancing Services Adjustment Action Volume

Balancing Services Adjustment Action SO-Flag

Balancing Services Adjustment Action STOR Provider Flag (Post P305 only; will be null for Pre

P305 dates)

Trading Unit Period Information:
Trading Unit Name
Total Trading Unit Metered Volume (MWh)

* Period Information:

Transmission Loss Multiplier (TLMij)

BM Unit Applicable Balancing Services Volume (QAS_i) (MWh)

Maximum Export Limit Information:

Time From

Level From (MW)

Time to

Level To (MW)

Maximum Import Limit Information:

Time From

Level From (MW)

Time to

Level To (MW)

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

BSC Party Settlement Date information:

Settlement Date

Settlement Run Type

SAA Run Number

SAA CDCA Settlement Run Number

SVAA CDCA Settlement Date

SVAA CDCA Settlement Run Number

SVAA SSR Run Number

BSC Party Id

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

<u>Settlement Period Information:</u>

Settlement Period (1-50) (j)

Aggregate Party Period Charges (defined in IDD Part 1 section 8.4.2)

System Period Data (defined in IDD Part 1 section 8.4.3)

Account Period Information:

Production/Consumption Flag (a)

Account Period Data (defined in IDD Part 1 section 8.4.4)

Account Period BMU Information:

BM Unit ID (i)

Account Period BMU Data (defined in IDD Part 1 section 8.4.5)

BM Unit Period Information:

BM Unit ID

BM Unit Period Data (defined in IDD Part 1 section 8.4.6)

Trading Unit Name

Total Trading Unit Metered Volume (MWh)

BM Unit Period FPN Spot Points (FPNit):

Time from

FPN Value from

Time to

FPN Value to

BM Unit Period Bid-Offer Information:

Bid-Offer pair number (n)

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

BM Unit Period Bid-Offer Spot Points (^tQBOⁿij):

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

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

Acceptance STOR Provider Flag

Reserve Scarcity Price Flag

BM Unit Period Bid-Offer Acceptance Spot Points (qA it):

Time from

Bid-Offer Acceptance Level Value From

Time to

Bid-Offer Acceptance Level Value To

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

Bid-Offer Pair Number

Bid-Offer Pair Acceptance Bid Volume

Bid-Offer Pair Acceptance Offer Volume

BM Unit MVR Information:

Subsidiary Party ID and Production/Consumption Flag (a)

MVR Data (defined in IDD Part 1 section 8.4.8)

Physical Interface Details:

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

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

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

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

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

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

where there had been a record

BO2|10|123456.789|20|123456.789|

deletion of this record would be shown by

BO2|10||20||

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

Note:

SAA CDCA Settlement Run Number

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

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

SVAA CDCA Settlement Date

SVAA CDCA Settlement Run Number

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

SVAA SSR Run Number

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

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

SVAA CDCA Settlement Date

SVAA SSR Run Number

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

SVAA CDCA Run Number Will be zero

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

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

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

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

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

5.26 SAA-I026: (input) Price Adjustment Data

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

Interface Requirement:

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

Balancing Services Adjustment Data

Settlement Date

Settlement Period (1-50)

EBCA_i (Net Buy-Price Cost Adjustment)(Energy)

EBVA_j (Net Buy-Price Volume Adjustment)(Energy)

SBVAi (Net Buy-Price Volume Adjustment) (System)

BPA_i (Buy-Price Price Adjustment)

ESCA_i (Net Sell-Price Cost Adjustment)(Energy)

ESVA_i (Net Sell-Price Volume Adjustment)(Energy)

SSVA_i (Net Sell-Price Volume Adjustment)(System)

SPA_i (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:

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

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

Interface Requirement:

The System Operator shall send to the SAA and BSCCo requests for data change where it is found that the data originally submitted was incorrect or incomplete.

Where such a request relates to Emergency Instructions, the first line of the instruction should contain the words 'EMERGENCY INSTRUCTION'. In addition, where the Emergency Instruction is to be treated as an 'Excluded Emergency Acceptance', the request will also include the words 'EXCLUDED EMERGENCY ACCEPTANCE'. Where it is not to be treated as an 'Excluded Emergency Acceptance' the words 'EMERGENCY ACCEPTANCE' will be included in the request.

Non Functional Requirement:

Data changes are only applicable to the data types: BOAL, BOD, FPN, and QPN.

Issues:

5.28 BMRA-I024: (input) Large Combustion Plant Directive Spreadsheet¹³

Interface ID:	Source:	Title: Large Combustion Plant Directive Spreadsheet	BSC Reference:
BMRA-I024	BSCCo		P226
Mechanism: Manual, MS Excel Spreadsheet, by email.	Frequency: As Necessary	Volumes: Adhoc	20/0h

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.

¹³ P226

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

Interface ID: BMRA-I025	Source: System Operator	Title: SO-SO Prices	BSC reference: CP1333
Mechanism: Electronic data file transfer, XML	Frequency: Continuous (as made available from SO)	one file per Interconne	erconnector per hour (received as ctor per hour) plus occasional s of data (up to an extra 10%

Logical:

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

- The Resource Provider i.e. the System Operator who is offering the price.
- The Acquiring Area and Connecting Area. These codes identify the TSO areas involved in a trade, and are used by the BMRA to identify the Interconnector to which the data relates.
- The Resolution. This code identifies the length of the period of time to which the price relates (e.g. 60 minutes).
- The Time Interval i.e. the start date and time of the period of time to which the price relates.
- The Contract Identification, i.e. a code assigned by the System Operators that identifies a
 particular offer to increase or reduce flows on the Interconnector.

Chlation

- The Direction (up or down) in which the MW level would change.
- The Currency (e.g. EUR or GBP).
- The MW level and price.

Physical Interface Details:

This file will be received in a format defined by the XML Schema for Merit Order List documents (published in the ENTSO-E Reserve Resource Planning EDI library). The data items will be as defined in the XML Schema

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

Interface ID:	Source:	Title:	BSC Reference:
BMRA-I026	System	SO-SO Standing	CP1333
	Operator	Data	
Mechanism: Manual, MS Excel Spreadsheet, by email	Frequency: As necessary	Volumes: Infrequent, generally w added	hen new trading products are

Logical:

For reporting purposes, the BMRS associates SO-SO prices with a code (the SO-SO Trade Type) that identifies which Interconnector the price relates to, the Party offering the price, and the length of the time period to which it applies (e.g. 60 minutes).

An appropriate SO-SO Trade Type is automatically allocated to each price received via the SO-SO Prices interface (BMRA-I025), based on the Resource Provider, Acquiring Area, Connecting Area and Resolution associated with that price.

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

- SO-SO Trade Type
- Resource Provider Code
- Connecting Area Code
- Resolution Code
- Currency
- Effective From Date
- Effective To Date

Physical Interface Details:

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

5.31 BMRA-I028: (input) Receive REMIT Data

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

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

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

Logical:

The BMRA shall receive Transparency Regulation Data in the form of XML and PDF files relating to the following categories:

- Load
- Outages
- Transmission
- Congestion Management
- Generation
- Balancing

Each category contains a set of individual articles, each of which is represented by a particular file.

Physical Interface Details:

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

6 Interfaces From and To FAA

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

This interface is defined in Section 4.

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

This interface is defined in Section 4.

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

This interface is defined in Section 4.

6.4 ECVAA-I006: (input) Credit Limit Data

Interface ID:	Source:	Title:	BSC Reference:
ECVAA-I006	FAA	Credit Limit Data	ECVAA SD: 5, A
EPFAL Ref: FAA-I019			ECVAA BPM: 3.3, 4.17
	26		RETA SCH: 4, B, 3.3, CR12
Mechanism:	Frequency:	Volumes:	
Electronic data file	Continuous,	1 file sent per BSC Par	ty initially.
transfer	when credit	1 file sent per BSC Par	ty upon change to Credit Limit
	limit data	30	
	changes	0	

Interface Requirement:

The ECVAA Service shall receive Credit Limit data from the FAA Service as and when a BSC Party's credit limit changes.

Note: Currently the FAA service only operates during normal working hours and therefore Credit Limit data will only be expected during these hours.

The Credit Limit data shall include:

Party Credit Limit Details

BSC Party ID

Effective From Settlement Date

Credit Limit (MWh)

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

This interface is defined in Section 4.

6.6 SAA-I011: (input) Payment Calendar Data

Interface ID: SAA-1011	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, 0 Agreed 1 file per year,	CSV file. data file plus hard copy.

Interface Requirement:

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

The Payment Calendar data shall include:

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

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

This interface is defined in Section 4.

7 Interfaces From and To BSCCo Ltd

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

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

7.2 BMRA-I011: (output) Performance Reports

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

Interface Requirement:

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

Performance reports shall include the following:

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

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

Month Ending Date

Market Index Data Provider Identifier

Number of Settlement Periods for which Market Index Data was not provided Number of Settlement Periods where Individual Liquidity Threshold required default by BMRA

Number of Settlement Periods where zeroes were used in Indicative Calculations

Physical Interface Details:		

7.3 BMRA-I012: (input) System Parameters

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

Interface Requirement:

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

Effective from Settlement Date
Effective from Settlement Period (1-50)
Effective to Settlement Date
Effective to Settlement Period (1-50)
ETLMO+

ETLMO-Arbitrage Flag

NRL_j (Notional Reserve Limit) (MW)

 $DMAT_d$ (De Minimis Acceptance Threshold) (MWh) $CADL_d$ (Continuous Acceptance Duration Limit (minutes)

PAR_d (Price Average Reference Volume) (MWh) (0-9,999,999,999)

RPAR_d (Replacement Price Average Reference Volume) (MWh)

VoLL (Value of Lost Load) (£/MWh)

Physical Interface Details:

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

Issues:	*O ₁

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

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

Interface Requirement:

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

The information included shall be:

Month

Participant Id Participant Name

Count of Physical lines installed

Count of Comms Base Software (up to 5 users)

Count of Comms additional Software (each additional user)

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

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

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



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

Interface ID:	Source:	Title:	BSC Reference:	
BMRA-I016	BSCCo	Receive Market Index Data Provider Thresholds	P78	
Mechanism:	Frequency:	Volumes:		
Manual	Ad-hoc	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 processing rules for this			Threshold data from BSCCo. The	
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;				
other fields. It can be one of: Insert; Update; Delete. Physical Interface Details:				
Physical Interface Detail	IS:		Qx.	
			40.	
Issues:				

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

Interface ID:	User:	Title:	BSC Reference:	
BMRA-I017	BSCCo	Report Market Index	P78	
		Data Provider Thresholds		
Mechanism:	Frequency:	Volumes:		
Manual	In response to BMRA-I016, as described in BMRA-F008	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	a Provider Liquidity Thres	shold 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:				
PCALALION ON				

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

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

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

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

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

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

Source:	Title:	BSC Reference:	
BSCCo Ltd	Distribution Line	CDCA SD 15.1	
	Loss Factors	CDCA BPM 4.5 (?), CP548	
Frequency:	Volumes:		
Annually	17568000 factors		
·	(1000 metering systems * 366 * 48)		
	BSCCo Ltd Frequency:	BSCCo Ltd Distribution Line Loss Factors Frequency: Volumes: Annually 17568000 factors	

Interface Requirement:

The CDCA receives Line Loss Factors relating to a Metering System from BSCCo Ltd.

Metering System Identifier
Settlement Date
Settlement Period
Line loss Factor

Note that each instance of the flow may contain up to 200000 records, and that it is legal for replacement data to be provided where necessary.

Physical Interface Details:

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

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

pecific L Metering System Identifier (for site specific Line Losses)

Settlement Date

Time Period

Line Loss Factor

Reason for rejection

Physical Interface Details:

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

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

Interface Requirement:

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

These shall include:

Monthly, or immediately if service level falls below agreed level for each item:

Percentage of total number of Outstation Channels interrogated;

Percentage of total number of Outstation Channels successfully read by agreed time [eg 09:00 at Day+1]:

Percentage of data needing to be estimated that was created in time for Interim Initial Settlement; Percentage of data needing to be estimated that was agreed with BSC Party in time for Initial Settlement:

Percentage of raw meter data sent to relevant BSC Party by agreed time [eg 13:00 on Day+1]; Percentage of aggregated meter data which included estimates sent to SAA for Interim Initial Settlement;

Percentage of aggregated meter data which included estimates sent to SAA for Initial Settlement;

Monthly:

Percentage of changed metered data reported to SAA in time for next Settlement Run for relevant Settlement Day;

Percentage of occasions where Site appointments were kept on agreed date and time;

Percentage of occasions where help desk queries were registered to agreed timescales;

Percentage of occasions where help desk queries were responded to within agreed timescales according to severity level;

Percentage of occasions where help desk queries were resolved to agreed timescales.

Quarterly:

Percentage of responses to MOA for Proving Test requests given by agreed time [eg 5 working days] for remote tests;

Percentage of responses to MOA for Proving Test requests given by agreed time [eg 1 working day] for local tests:

Percentage of suspected metering system faults notified to MOA within agreed time [eg 1 working day];

Percentage of MAR data and reports issued to BSC Party within agreed timescales [eg three, six or twelve months for a given metering system; refer to CDCA-F013 for details];

Percentage of reports issued in complete, accurate and correct format to BSC Parties and SAA over the period;

Quarterly, or immediately if service level falls below agreed level for each item:

Percentage of Proving Test results sent to MOA within agreed time [eg 1 working day] of completion;

By exception and confirmed monthly:

Percentage of cases where receipt of information from a BSC Party is confirmed back to Party within agreed timescales [eg 15 minutes for data received electronically];

Percentage of cases where information received from CRA or a BSC Party is processed within agreed timescales;

Physical Interface Details:

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

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

7.14 CDCA-I061 (input) Receive System Parameters

Interface ID::	Status:	Title:	BSC Reference:
CDAA-I061	Mandatory	System Parameters	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:			
	Ch	->	

7.15 CDCA-I062: (input) Receive Sample Settlement Periods¹⁴

Interface ID: CDCA-I062	Source: BSCCo Ltd	Title: Receive Sample Settlement Periods	BSC Reference: P82
Mechanism:	Frequency:	Volumes:	
Manual	Annually	600 periods	
Intenface Dequirements		Ç	7 x .

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.

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

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

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

Interface Requirement:

CDCA shall send Metered Volume Data for Sample Settlement Periods to BSCCo.

The following information shall be included in the interface:

Header

Reference Year

Grid Supply Point Metered Volume Data

Grid Supply Point Identifier

Settlement Date

Settlement Period

Metered Volume

Interconnector Metered Volume Data Ting Impleme

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

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

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

Interface ID: CDCA-1064	User: BSCCo Ltd	Title: MOA Proving Tests Report	BSC Reference: P99
Mechanism:	Frequency:	Volumes:	
Manual	Monthly	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

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

Interface ID: CDCA-1065	User: BSCCo Ltd	Title: MOA Fault Resolution Report	BSC Reference: P99
Mechanism:	Frequency:	Volumes:	
Manual	Monthly	Low	

Interface Requirement:

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

Participant Header

Market Sector

Market Participant Role Code

Meter Operator Agent Id

Period End Date

Periodicity

CVA MOA Serial 2 Data

GSP Group ID

Number of MSIDs with fault Count of faults identified

Average number of business days faults outstanding

Average number of business days taken to resolve fault

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

Physical Interface Details:

The filename shall be CDCA134<last digit of the year number>.<MON>, where <MON> is the reporting month (e.g. JAN, FEB, etc.).

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

ZHD Header information:

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

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

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

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

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

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

This interface is defined in Section 4.

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

Interface ID:	Source:	Title:	BSC Reference:
CRA-I009	BSCCo Ltd	Manual Credit	P215
		Qualifying Flag	
Mechanism:	Frequency:	Volumes:	
Manual, by email,	As necessary		
letter or fax			
The CRA shall receive BSCCo Ltd. The inform Credit Qualifying Detail BM Unit Id Manual Credit Qualifyin Effective From Date Effective To Date (can	ation shall contain: <u>s</u> ng Flag (True/False)	Manual Credit Qualifyi	ing Flag for a BM Unit from

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

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

The CRA shall receive, from time to time the Credit assessment Load Factors from the BSCCo Ltd. The information shall contain:

Action Description

Authentication Details

Name Password

Physical Interface Details:

BM Unit Credit Assessment Load Factor Details

BM Unit Id

Working Day Credit Assessment Load Factor (WDCALF_i) Non-Working Day Credit Assessment Load Factor (NWDCALF_i) Supplier Export Credit Assessment Load Factor (SECALF_i)

Effective From Date

Physical Interface Details:		
	·	

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

This interface is defined in Section 4.

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

This interface is defined in Section 4.

7.26 **CRA-I029: (input) Transmission Loss Factors**

Interface ID: CRA-1029	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.

ne tu the land the land the land to the la The Transmission Loss data shall contain the following details:

Authentication Details

Name Password

Transmission Loss Details

Proportion of Losses (alpha) Effective From Date

BM Unit Transmission Loss Details

BM Unit ID

Transmission Loss Factor 16 Effective from Date Effective to Date

 $^{^{\}rm 16}$ Indented to show that there may be more than one TLF for a BSC Year

7.27 CRA-I032: (output) CRA Performance Reports

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

7.28 CRA-I034: (input) Flexible Reporting Request

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

Interface Requirement:

The CRA shall receive authorisations from BSCCo Ltd. to start or stop sending copies of a BSC Party report to another BSC Party.

Requesting BSC Party Details

BSC Party Id BSC Party type

Report Details

Report Type BSC Party Id BSC Party type Start/Stop Flag

Physical Interface Details:

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

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

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

Interface Requirement:

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

The information included shall be:

Month

Participant Id Participant Name

Count of CVA Metering Systems

Count of CVA BM Units

Count of CVA Exempt Export BM Units

Count of 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:

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

Interface ID: CRA-1042	Source: MIDP	Title: Receive Market Index Data Provider Registration Data	BSC Reference: P78
Mechanism:	Frequency:	Volumes:	
Manual	As Necessary	Low	

Interface Requirement:

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

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

Action Description

Market Index Data Provider Details

Market Index Data Provider Name

Market Index Data Provider Identifier

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

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

Interface ID:	Source:	Title:	BSC Reference:	
CRA-I043	BSCCo Ltd	Receive Exempt	P100	
	0.	Export Registration		
	1707	Data		
Mechanism:	Frequency:	Volumes:		
Manual, by email,	As necessary	Low		
letter or fax	713 Hoodsally	, CO.,		
letter or lax		5 /2		
CRA shall receive the E interface.	xempt Export registra	ation details for a BM Ur	nit from BSCCo Ltd via a manual	
		'C'		
The flow shall include th	ne following:	100		
	· ·	102		
BM Unit Details		47.		
BSC Party Id		· Q	×.	
BM Unit Id			40	
interface. The flow shall include the following: BM Unit Details BSC Party Id BM Unit Id Exempt Export Registration				
Exempt Export I	Registration			
Effective From S				
Or,				
Exempt Export De-Registration				
Effective To Settlement Date				
306 10 00.				
Physical Interface Details:				
Detui	···· •			
i				

7.32 CRA-I044: (input) Withdrawals Checklist Request

Interface ID:	Source:	Title: Withdrawals Checklist Request	BSC Reference:
CRA-1044	BSCCo Ltd		CP974
Mechanism: Manual, by email or fax	Frequency: Ad hoc	Volumes: Low	

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

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

Notes:

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

Physical Interface Details:

7.33 CRA-I047: (output) Withdrawals Checklist

Interface ID: CRA-1047	User: BSCCo Ltd	Title: Withdrawals Checklist	BSC Reference: CP974
Mechanism: Manual, by email or fax	Frequency: On request	Volumes: Low	Tion on the second

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

Report Date

Reason for Request

Registration Details

Participation capacities registered

BSC Party / BSC Party Agent Name BSC Party / BSC Party Agent Id

Market Role Code(s)
Effective From Date

Effective To Date

BM Units registered BM Unit ID

Effective From Date

Final Effective To Date

Metering Systems registered

MSID

Effective From Date Final Effective To Date

Communication Lines

High-grade or low-grade line

Own or shared line

FTP accounts/ Encryption keys to be terminated.

Access to BSC Central Systems terminated effective from

Report non deliveries set up for BSC Party/ BSC Party Agent

Flow Type

Effective From Date Effective To Date

Trading Details

Last Day of Trading

Payment date of the RF run for the Last Day of Trading (if known)

Settlement Details

As received via Interface Requirement CRA-I046

Authorisation and Notification Details

As received via Interface Requirement CRA-I045

Physical Interface Details:

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

Interface ID:	User:	Title:	BSC reference:	
CRA-I050	BSCCo	GC or DC Breach	P359	
		Estimation		
	Cz	Challenge Decision		
Mechanism:	Frequency:	Volumes:		
<u>Manual</u>	As required	low		
Intoufoco Doggiuomonte				

Interface Requirement:

Pacti POLCANICALIANIA 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:

7.347.35 ECVAA-I017: (output) ECVAA Performance Report

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

Interface Requirement:

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

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

7.357.36 ECVAA-I021: (output) Credit Limit Warning

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

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

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

Interface Requirement:

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

The information included shall be:

Month

Participant Id Participant Name Gross Contract Volume

where Gross Contract Volume is

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

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

Physical Interface Details:

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

Interface ID::	User:	Title: Minimum Eligible Amount Request	BSC Reference:
ECVAA-I026	BSCCo Ltd		CP519, CP1313
Mechanism: Manual	Frequency: Ad hoc, as a result of receipt of Credit Cover Minimum Eligible Amount Requests	Volumes: Low	

Interface Requirement:

The ECVAA shall issue Minimum Eligible Amount Requests to BSCCo Ltd as a result of the receipt of Credit Cover Minimum Eligible Amount Requests from a BSC Party which is in Section H Default.

The Minimum Eligible Amount Request data shall comprise:

BSC Party ID

Minimum Eligible Amount Request Date

Note: the Minimum Eligible Amount Request Date is the date of receipt of the Credit Cover Minimum Eligible Amount Request by the ECVAA.

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

Interface ID::	Source:	Title: Notification of BSC Parties in Section H Default	BSC Reference:
ECVAA-I027	BSCCo Ltd		CP1313
Mechanism: Manual	Frequency: Ad hoc, in response to a change in the list	Volumes: Low	Tion on

Interface Requirement:

The ECVAA shall receive from BSCCo Ltd a list of all BSC Party Ids that are currently in Section H Default.

7.397.40 ECVAA-I032: (input) Credit Assessment Price

Interface ID:: ECVAA-I032	Source: BSCCo Ltd	Title: Credit Assessment Price	BSC Reference: P2
Mechanism:	Frequency:	Volumes:	
Manual	As required	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:	Ch();
	Zo.

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

Interface ID::	Source:		C Reference:
ECVAA-I040	BSCCo Ltd		739
Mechanism: Manual, by email, fax or telephone call.	Frequency: As required	Volumes: Low	U.O.

Interface Requirement:

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

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

The notification shall contain

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

P	hysi	ical	Int	terf	face	D	etai	ls

7.41 7.42 ECVAA-I041: Receive Party Credit Default Authorisation Details

Interface ID:	Source:	Title: Receive Party Credit Default Authorisation Details	BSC Reference:
ECVAA-I041	BSCCo Ltd		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

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

Interface ID:	Source:	Title:	BSC Reference:
SAA-I010	BSCCo Ltd	BSCCo Ltd Cost	SAA SD: 2.6
		Data	SAA BPM: 3.16, 4.12, CP527,
		, C	CP1223
Mechanism:	Frequency:	Volumes:	
Electronic data file	Monthly/		4%
transfer	Annual		40 .

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.

7.447.45 **SAA-I014** (output) Settlement Reports

There are three variants of the Settlement Report. The first variant is sent to BSC Parties and is defined in Part 1 of the IDD. The second variant is sent to the System Operator 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	Frequency: Daily per	Volumes:	
transfer	settlement run		

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

bending Implementation 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 QMii)

Notional Reserve Limit (MW) (only for Settlement Dates prior to the P78 effective date)

Arbitrage Flag

CADL_d Continuous Acceptance Duration Limit

DMAT_d De Minimis Acceptance Threshold

System Period Data (defined in IDD Part 1 section 8.4.3)

Trading Unit Period Information:

Trading Unit Name

Total Trading Unit Metered Volume (MWh)

BM Unit Period Information:

BM Unit ID (i)

Trading Unit Name

Period FPN (FPN_{ii}) (MWh)

BM Unit Metered Volume (QM_{ii}) (MWh)

Transmission Loss Multiplier (TLMii)

BM Unit Applicable Balancing Services Volume (QAS_i) (MWh)

BM Unit Period Bid-Offer Information:

Bid-Offer Pair Number (n) Bid Price (PBⁿ_{ii}) (£) 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 Dentation reporting nulls, e.g.

where there had been a record

BO2|10|123456.789|20|123456.789|

deletion of this record would be shown by

BO2|10||20||

Note:

SAA CDCA Settlement Run Number

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

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

SVAA CDCA Settlement Date

SVAA CDCA Settlement Run Number

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

SVAA SSR Run Number

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

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

SVAA CDCA Settlement Date

SVAA SSR Run Number

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

SVAA CDCA Run Number Will be zero

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

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

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

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

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

Interface ID:	User:	Title:	BSC Reference:
SAA-I019	BSCCo Ltd	BSC Party	SAA IRR: SAA6, CP1222
		Performance	
		Reports	
Mechanism:	Frequency:	Volumes:	
Electronic data file	Monthly	~	7.
transfer	·		Qx.

Interface Requirement:

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

The BSC Party Performance Reports shall include:

BSC Party rankings by number/volume of trades

BSC Party rankings by imbalance volumes

Ranking will be as follows:

Ranking by Number of Trades, then by Volume (ie if two parties have the same number of trades, then their relative ranking will be established using volume of trades).

Ranking by Energy Imbalance, then by Information Imbalance (ie if two parties have the same energy imbalance, then their relative ranking will be established using information imbalance). Note that the Imbalance Volumes flow for this report contains only a single value for imbalance volume.

This interface is not in use.

7.487.49 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: ng: Olementation

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**

7.497.50 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:	Frequency:	Volumes:	
Manual	Ad-hoc	Low – typically one or two per month	

Interface Requirement:

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

Effective from Settlement Date

Effective from Settlement Period (1-50)

Effective to Settlement Date

Effective to Settlement Period (1-50)

Information Imbalance Price 1

Information Imbalance Price 2

Arbitrage Flag

NRL_i (Notional Reserve Limit) (MW)

DMAT_d (De Minimis Acceptance Threshold) (MWh)

CADL_d (Continuous Acceptance Duration Limit (minutes)

PAR_d (Price Average Reference Volume) (MWh) (0-9,999,999,999)

RPAR_d (Replacement Price Average Reference Volume) (MWh)

VoLL (Value of Lost Load)

Physical 1	Interface	Details:
------------	-----------	-----------------

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

:

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

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

Interface Requirement:

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

The information included shall be:

Month

Participant Id
Participant Name

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.

T		•	•	4	c				• •	
ν	'nτ	KILON		Int/	1Ptc	α		nta	116	٦.
	и۱	sica		uuu	-112	ıcc	1,	cla	ш	١.

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

Interface ID:	Source:	Title:	BSC Reference:		
SAA-I027	SAA	Report pre-settlement run validation failure	CP639, CP1222		
Mechanism:	Frequency:	Volumes:			
Manual	Ad-hoc	As required.			
Interface Requirement:					
The SAA shall send to E report shall include	BSCCo details of p	ore-settlement run validat	ion failures. The content of the		
Settlement Date	Q	γ.			
Settlement Run T	ype	45			
Failure Reasons		(O)			
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:	Issues:				
			10/2		

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

Interface ID: SAA-I028	Source: BSCCo	Title: Receive settlement run decision	BSC Reference: CP639
Mechanism: Manual	Frequency: In response to SAA-I027	Volumes: Low – typically one or two per month	

Interface Requirement:

BSCCo shall send to the SAA a decision on whether a settlement run should continue if the SAA has reported pre-settlement run validation run failures (SAA-I027) for this run.

Settlement Date Settlement Run Type Decision

Physical Interface Details:

Interface ID: SAA-1028	Source: BSCCo	Title: Receive settlement run decision	BSC Reference: CP639			
This interface is likely to be various.	This interface is likely to take the form of a fax or an e-mail or a telephone call. Failure Reasons will be various.					
Issues:						

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

Interface ID: SAA-1029	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	So y			

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:	Source:	Title: Receive Market Index Data Provider Thresholds	BSC Reference:
SAA-1031	BSCCo		P78
Mechanism: Manual	Frequency: Ad-hoc	Volumes: This manual flow is expected to h date ranges to be defined, for each Each date range to have a maxim Liquidity Thresholds.	ch DP, for each year.

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 Polemer other fields. It can be one of:

- Insert;
- Update;
- Delete.

	- Ox
Physical Interface Details:	Qx.
Issues:	· U _A
	V

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

1 / C ID	T	m. a	DCC D C		
Interface ID:	User:	Title:	BSC Reference:		
SAA-I032	BSCCo	Report Market Index Data Provider Thresholds	P78		
Mechanism:	Frequency:	Volumes:			
Manual	In response to SAA-I031, as described in SAA-F023	This manual flow is expected to h date ranges to be defined, for each Each date range to have a maxim Liquidity Thresholds.	ch DP, for each year.		
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					
C ₂					

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

Interface ID:	User:	Title:	Vax.	BSC Reference:
SAA-I034	BSCCo	Report Data Ch	Recommended ange	CP995, CP1283
Mechanism:	Frequency:	Volume	es:	
Manual	In response to SAA-I033 for an Emergency Instruction	Low		
Interface Requirement:				
The SAA will report to the BSCCo and recommend a course of action with regards to a request for data change received from the System Operator (via SAA-I033) where the request is marked as an Emergency Instruction.				
Non Functional Re	equirement:			

Issues:

Physical Interface Details:

Issues:

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

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

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

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

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

Interface ID:	Source:	Title:	BSC Reference:
SAA-I038	BSCCo	Receive Excluded Emergency Acceptance Pricing Information	P172
Mechanism:	Frequency:	Volumes:	
Manual	Ad-hoc	Low	
Interface Requirem	ent:		
		alculated Energy Imbalance Price subsequent Settlement Run.	es resulting from Excluded
The following data	items will be include	ed in the communication:	
Settlement Da Settlement Pe Buy Price Sell Price	riod	ed to calculate the new Energy In	mbalanca Pricas

Non Functional Requirement	

ls	sι	ıe	s
	J		

Issues:

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

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

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

Source:	Title:	BSC Reference:		
BSCCo	Receive Authorisation To Proceed With Full Settlement Run	P172		
Frequency:	Volumes:			
Ad-hoc	Low			
ent:				
The BSCCo shall send to the SAA authorisation to proceed with the full Settlement Run.				
Non Functional Requirement:				
In the second se				
Issues:				
	BSCCo Frequency: Ad-hoc ent: end to the SAA au	BSCCo Receive Authorisation To Proceed With Full Settlement Run Frequency: Volumes: Ad-hoc Low ent: end to the SAA authorisation to proceed with the full settlement to p		

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

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

Interface Requirement:

The ECVAA shall receive, from time to time request to remove all ECVNs and MVRNs from ECVAA for a Party in Section H Default, which shall contain:

- 1. Party ID
- 2. Removal effective from Date
- 3. Removal effective from Period
- 4. Copy of the BSC Panel resolution
- 5. Any notes pertinent to this removal

Physical Interface Details:

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

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

Interface Requirement:

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

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

Physical Interface Details:

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

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

- 1. To confirm receipt of the ECVAA-I049.
- 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.
- To confirm that the Volume Nullification process is completed. An update on the progress of each Volume Notification Nullification will be sent every working day if this process takes more than one working day.
- 5. To confirm that the final check has been completed.

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

7.647.65 BMRA-I033: (Input) STOR Availability Window

Interface ID::	Source:	Title:	BSC
BMRA-I033	BSCCo Ltd	STOR Availability Window	Reference:
DIVITAL 1 1000		-	P305
Mechanism:	Frequency:	Volumes:	
Manual, by email.	As required	Low	

Interface Requirement:

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

The following details will be provided:

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

Physical Interface Details:

BSCCo will send details in CSV format.

7.657.66 SAA-I046: (Input) STOR Availability Window

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

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

Source:	Title:	BSC Reference:
BSCCo	BSCCo Calculated SBR Imbalance Price	P323
Frequency:	Volumes:	
As required	Low	
	BSCCo Frequency:	BSCCo Calculated SBR Imbalance Price Frequency: Volumes:

Interface Requirement:

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

The following data items will be included in the communication:

- Settlement Date(s)
- Settlement Period(s)
- BSCCo calculated price(s)

1 B000	o calculated price(s)	
Non Functional Requirement:	Ch	
	· · · · · · · · · · · · · · · · · · ·	
Issues:	4/2	
	40	

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

Interface ID:	Source:	Title:	BSC Reference:
SAA-I048	SAA	SBR Imbalance Price Discrepancy Notice	P323
Mechanism:	Frequency:	Volumes:	00
Manual	As required	Low	*

Interface Requirement:

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

The following data items will be included in the communication:

- Settlement Date(s)
- Settlement Period(s)
- Discrepancy (Y/N)
- SAA SBP
- BSCCo SBP
- Difference

N	on	Funct	tional	Requ	iiremer	1t:

Issues:

8 Interfaces From and To Stage 2

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

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

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

Interface Requirement:

CDCA provides aggregated meter flow volumes for the GSP Groups to SVAA.

The physical form of this interface is the existing GSP Group Take file sent from the SSA system to ISRA.

One file per GSP Group, containing GSP Group Take Volumes produced by a CDCA Run (excluding any Interim Initial runs for Settlement Dates prior to the P253 effective date) for each Settlement Period of a Settlement Date.

There are fields in the existing flow which are meaningless under the BSC, for which dummy or null values are provided. These fields are called Fillers in the physical flow.

Physical Interface Details:

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

ZHD Header information:

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

8.2 CRA-I004: Agent Details

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

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

Interface ID: SAA-1007	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 ld part of file name
File Type	='P0182001'
From Stage2 Role Code	='G'
From Stage2 Participant Id	='CAPG"
To Stage2 Role Code	='F'
To Stage2 Participant Id	= Id allocated to CDCA by Stage 2
Creation Time	
Sending Application Id	=NULL
Receiving Application Id	=NULL
Broadcast	=NULL
Test Data Flag	indicates whether this is live data or test data

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

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

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

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

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

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

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

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

Interface ID: BMRA-1032	User: SVAA	Title: Demand Control Instructions to SVAA	BSC Reference: P305
Mechanism:	Frequency:	Volumes:	
Electronic data file	As made	Low	
transfer, Pool	available by	1	
Transfer File Format	the SO	30,	

Interface Requirement:

The BMRA provides details of Demand Control Instructions to the SVAA as and when they are made available by the System Operator 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.

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

Interface ID:	Source:	Title: Allocated Supplier Volumes	BSC Reference:
SAA-1045	SVAA		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 ld part of file name
File Type	='P0237'
From Stage2 Role Code	='G'
From Stage2 Participant Id	='CAPG"
To Stage2 Role Code	='F'
To Stage2 Participant Id	= Id allocated to CDCA by Stage 2
Creation Time	
Sending Application Id	=NULL
Receiving Application Id	=NULL
Broadcast	=NULL
Test Data Flag	indicates whether this is live data or test data

9 **Interfaces Within BSC Central Systems**

9.1 BMRA-I001 (input): Registration Data

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

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

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

Interface Requirement:

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

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

Balancing mechanism data shall include all data listed in BMRA-I002 that was received from the SO, in.
IDICINICATION

Physical Notification (PN)

Quiescent PN (QPN)

Bid-Offer Data (BOD)

Applicable Balancing Services Volume (QAS)

Maximum Export Limit (MEL)

Maximum Import Limit (MIL)

Run Up Rates Export (RURE)

Run Up Rates Import (RURI)

Run Down Rates Export (RDRE)

Run Down Rates Import (RDRI)

Notice to Deviate from Zero (NDZ)

Notice to Deliver Offers (NTO)

Notice to Deliver Bids (NTB)

Minimum Zero Time (MZT)

Minimum Non-Zero Time (MNZT)

Stable Export Limit (SEL)

Stable Import Limit (SIL)

Maximum Delivery Volume (MDV)

Maximum Delivery Period (MDP)

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

Bid-Offer Acceptance Level (BOAL)

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

Bid-Offer Acceptance Level Flagged (BOALF)

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

Demand Control Instructions

Loss of Load Probability and De-rated Margin Data

STOR Availability Window

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

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

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

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

See ECVAA-I036 in this section.

9.5 CDCA-I002: (input) Registration Data

See CRA-I019 in this section.

9.6 CDCA-I016: (input) Information from TAA

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

Interface Requirement:

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

- Relevant BSC Party
- Meter Operator Agent
- Metering Equipment technical details
- Applicable Code of Practice
- GSP and/or GSP Group

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

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

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

Interface ID:	User:	Title:	BSC Reference:		
From: CDCA-I027	SAA	Aggregated	CDCA SD 22, 23.1, A, B		
To: SAA-I004	Cz	Interconnector	CDCA BPM 4.15, CP527		
		Meter Flow Volumes			
Mechanism:	Frequency:	Volumes:			
via shared database	Daily	Initially 96 (2 interconr	nectors * 48 readings). The		
		number of interconned	ctors is expected to increase to		
		5 or 6.			
Interface Requirement:		YA.			
Aggregated meter flow	volumes for the Interc	connectors are sent to S	AA, as follows for each		
Interconnector:		(2)			
		Thene			
Interconnector Identifier	Ī	(2)			
Settlement Date					
Settlement Period		Ç	Z/>;·		
Estimate Indicator			40.		
Date of aggregation					
Meter Volume			*		
CDCA Run Number					
Import/Export indicator	(I/E)				
The Import/Export india	atar indicates the dire	ection of the energy flow	the Motor Volume is therefore		
The Import/Export indicator indicates the direction of the energy flow: the Meter Volume is therefore unsigned.					
unsigned.					
Physical Interface Details:					
<u> </u>					

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

Interface ID: From:CDCA-I028 To: SAA-I004	User: SAA	Title: Aggregated BM Unit Meter Flow Volumes	BSC Reference: CDCA SD 22, 23.1, A, B CDCA BPM 4.9, CP527			
Mechanism: via shared database	Frequency: Daily	Volumes:				
Interface Requirement:						
Aggregated meter flow	volumes for the BM U	nits are sent to SAA, as	s 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 Detail	ls:					

9.10 CDCA-I034:Settlement Calendar

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

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

Interface ID: CDCA-1035	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 Gro	oups 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 9.12

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 Gro	l oups in England & Wales			
Interface Requirement:						
CDCA provides aggreg GSP Group:	ated meter flow volur	nes for the GSP Groups	to SAA, as follows for each			
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 Detai	ls:					
* / ,·						

CDCA-I039: (output) Information to TAA 9.13

Interface ID:	User:	Title: BSC Reference:			
From: CDCA-I039	TAA	Information to TAA. CDCA SD 11.6			
To: TAA		BPM			
Mechanism:	Frequency:	Volumes:			
Manual	As required	estimate 10 per day (0.2% of 5000)			
Interface Requirement:		Y			
The CDCA carry out si	te inspections and liai	se with the Technical Assurance Agent (TAA) as			
necessary.					
The CDCA sends the TAA the following Metering System details for all Metering Systems in the					
Sampled category.					
Relevant BSC Party					
Meter Operator Agent					

- Meter Operator Agent
- Metering Equipment technical details
- Applicable Code of Practice
- GSP and/or GSP Group

Physical Interface Details:		

9.14 CDCA-I050: (input) Data Exception Reports

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

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

See SAA-I043 in this section.

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

Interface		User:	Title:	BSC Reference:			
	DCA-I068	SAA	Aggregated BM Unit	CDCA SD 19, P305			
To: SAA	-1044		Meter Flow Volumes				
Mechani	sm:	Frequency:	Volumes:				
via shar	ria shared database As required Low						
Interface	Requirement:						
for each	BM Unit:	of disconnected meter	volumes for the BM Un	its are sent to SAA, as follows			
BM Unit	Identifier						
_	Settlement Date						
S	Settlement Perio	od 🗼					
_							
L	isconnection M	leter volume	·				
Physical	Interface Detail	ls:	<u>6</u>				
			The state of the s				
			Ch				
9.17	CRA-I0	10	Op,	<			
	This inte	erface is redundant	t.	240			
0 10	CDA IO	13. (output com	man) Issua Authon	stigation Papart			

9.17 **CRA-I010**

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

This interface is defined in Section 4.

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

This interface is defined in Section 4.

9.20 **CRA-I017** (output): Credit Assessment Capability

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

Interface Requirement:

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

Credit Assessment Details

BM Unit ID

Working Day BM Unit Credit Assessment Export Capability (WDBMCAEC)

Non- Working Day BM Unit Credit Assessment Export Capability (NWDBMCAEC)

Working Day BM Unit Credit Assessment Import Capability (WDBMCAIC)

Non- Working Day BM Unit Credit Assessment Import Capability (NWDBMCAIC)

Effective From Date

Effective To Date

Physical Interface Details:

Pendino Implementation

9.21 **CRA-I019:** (output) Registration Data

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

b chding Implementation 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

Version 39.0 Version 38.0

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

IS AND CINCALATION **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

Credit Qualifying Status

Interconnector ID

FPN flag

Effective From Date

Effective To Date

Interconnector Registration Details

Name

Additional Details Interconnector ID Effective From Date Effective To Date

GSP Group Registration Details

GSP Group Registrant (ie the responsible distribution business)

GSP Group ID **GSP Group Name**

GSP Details

GSP ID

Effective From Date Effective To Date

Physical Interface Details:

9.22 CRA-I022: (output) Metering System Details

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

Interface Requirement:

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

Metering System Registration Data

Metering System Details

Action Code

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

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

Physical Interface Details:

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

9.23 **CRA-I030:** (input) Data Exception Reports

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

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

See ECVAA-I047 in this section.

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

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

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

9.27 **ECVAA-I011: Account Bilateral Contract Volume Report**

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

Interface Requirement:

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

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

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

The Account Bilateral Contract Volume Report shall include:

BSC Party ID

Production/Consumption flag

ECVAA Run Number

Settlement Date

Settlement Period (1-50)

Molenne - Str. Account Bilateral Contract Volume (MWh)

9.28 ECVAA-I012: MVRN Report

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

Interface Requirement:

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

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

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

The Metered Volume Reallocation Notification Report shall comprise:

BM Unit ID

ECVAA Run Number

Settlement Date

Settlement Period (1-50)

Lead Party Production/Consumption flag

Subsidiary Party ID

Subsidiary Party Energy Account Production/Consumption flag

Metered Volume Fixed Reallocation (MWh)

Metered Volume Percentage Reallocation (%)

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

This interface is defined in Section 4.

9.30 ECVAA-I020: (input) Data Exception Reports

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

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

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

Interface Requirement:

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

The Publish Credit Default Report shall comprise:

Credit Default Notice:

BSC Party ID

Credit Default Level

Entered Default Settlement Day

Entered Default Settlement Period

Cleared Default Settlement Day

Cleared Default Settlement Period

Cleared Default Reason

Notes:

The Credit Default Level may be one of the following:

Level 1 Default:

Level 2 Default;

The Entered Settlement Day and Entered Settlement Period indicate when the BSC Party entered the reported default level.

The Cleared Settlement Day and Cleared Settlement Period indicate when the BSC Party cleared the reported default level.

The Cleared Default Reason indicates why the Party cleared default and may include one of the following

Credit Cover Percentage <= 75% of Credit Limit (Level 1 Default)

Credit Cover Percentage <= 90% of Credit Limit (Level 2 Default)

Authorisation Withdrawn by BSCCo Ltd (Discretionary).

Authorisation Withdrawn by BSCCo Ltd (Trading Dispute Upheld)

Party Withdrawn from BSC

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

Interface ID:	User:	Title: Withdrawing Party Authorisation and Notification Details	BSC Reference:
ECVAA-I047	CRA		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:

9.33 ECVAA-I048 (input) Physical Notification Data

See BMRA-I007 in this section.

9.34 SAA-I013: (output) Credit/Debit

This interface is defined in Section 4.

9.35 SAA-I001 (input): Registration Data

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

9.36 SAA-I002 (input): Credit Assessment Capability

See CRA-I017 in this section

9.37 SAA-I003 (input) SAA Balancing Mechanism Data

See BMRA-I007 in this section.

9.38 SAA-I004: (input) Period Meter Data

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

9.39 SAA-I008: MVRN Report

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

9.40 SAA-I015

This interface is redundant.

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

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

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

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

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

Interface ID:	User:	Title: Withdrawing Party Settlement Details	BSC Reference:
SAA-1037	CRA		CP974
Mechanism: Manual, via shared database	Frequency: On request	Volumes: Low	

Interface Requirement:

The SAA shall issue settlement details for a withdrawing participant, on request from the CRA.

Report Date BSC Party Name BSC Party Id

Settlement Details

Date of last non-zero metered volumes held in SAA

The date of the last metered volumes held in SAA is the last settlement date for which the party has non-zero metered volumes registered against its Interconnector, Supplier or CDCA metered BM Units.

Physical Interface Details:

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

Interface ID: SAA-1043	User: CDCA	Title: Demand Control Instructions to CDCA	BSC Reference: P305
Mechanism:	Frequency:	Volumes:	
Via shared database with CDCA	As required	Low	
Interface Requirement:			
received from the Syste The Demand Control In	•		
Demand Cont Start Date and End Date and	d Time		
Physical Interface Detai			

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

See CDCA-I068 in this section.

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

Interface ID: From: CRA-I036 To: ECVAA-I030	User: ECVAA	Title: Notification Agent Termination Request	BSC Reference: CP503
Mechanism:	Frequency:	Volumes:	
Manual	As required	Low	
T (C D ·)	•		<u> </u>

Interface Requirement:

The CRA Service shall issue Notification Agent Termination Requests to ECVAA when CRA is in the process of terminating an MVRNA or ECVNA role.

The Notification Agent Termination Request shall comprise:

Notification Agent Termination Request:

BSC Party Agent Id BSC Party Agent Role (MVRNA or ECVNA) Termination effective date

Physical Interface Details:

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

Interface ID: From: ECVAA-I031 To: CRA-I037	User: CRA	Title: Notification Agent Termination Feedback	BSC Reference: CP503
Mechanism:	Frequency:	Volumes:	
Manual	As required	Low	
Intenface Dequinements		101	·

Interface Requirement:

The ECVAA Service shall issue a Notification Agent Termination Feedback to CRA in response to a Notification Agent Termination Request.

The Notification Agent Termination Feedback shall comprise:

Notification Agent Termination Feedback:

BSC Party Agent Id BSC Party Agent Role (MVRNA or ECVNA) Termination effective date Termination Status

Notes:

Termination status may indicate one of two situations:

- 1. The notification agent has no outstanding notification authorisations beyond the termination effective date (and therefore CRA may terminate the role)
- 2. The notification agent has some outstanding notification authorisations beyond the termination effective date (and therefore CRA may not terminate the role)

Physical Interface Details:

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

See SAA-I013 in Section 4.

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

Interface ID:	User:	Title:	BSC Reference:		
From: CDCA-I040	ECVAA	BM Unit 'Credit	P215		
To: ECVAA-I015		Cover' Meter			
		Volume Data Report			
Mechanism:	Frequency:	Volumes:			
Electronic Data File	As required or	Up to 5000 BM Units			
Transfer	daily				
Interface Requirement:	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 rep	present where no value	could be generated.		
Physical Interface Detai	Physical Interface Details:				

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

See CDCA-I040 in section 9.

9.51 BMRA-I027: (input) Settlement Reports

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

9.52 SAA-I049: Trading Unit Data

Interface ID:	User:	Title:	BSC Reference:
SAA-I049	BMRS	Trading Unit Data	P321
Mechanism:	Frequency:	Volumes:	
Electronic	For each		
	Settlement run		
Interface Requireme	ent:		
The following data is	tems will be sent by Trading Unit Trading Unit Settlement I Settlement F Settlement F Delivery Mo Import Volur Export Volur Net Volume	t Type Date Period Run Type de me	

10 Interfaces From and To Transfer Coordinator

10.1 CRA-I023: Issue Registration Transfer Report

Interface ID: CRA-l023	User: Transfer Coordinator (BSCCo)	Title: Issue Registration Transfer Report	BSC Reference: CRA SD 11.2, CP753, CP1223
Mechanism:	Frequency:	Volumes:	
Manual	On Change of Status	Low	

Interface Requirement:

On completion of entry of confirmed updates resulting from a transfer of metering system(s) to or from SMRA, the CRA shall issue a report to the Transfer Coordinator detailing the data entered.

Metering System registration details

Metering System Identifier Meter Operator Agent ID Effective from date Effective to date

BM Unit details

BM Unit ID

Effective from date

Effective to date

SVA metering system identifiers

SVA MSID (as supplied with CRA-I005)

Physical Interface Details:

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

10.2 CRA-I038: Transfer from SMRS information

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

10.3 CRA-I039: Transfer from SMRS report

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

Interface Requirement:

The following information is reported to the Transfer coordinator following receipt of new transfer from SMRS information

SVA registrant

Import SVA MSID

Export SVA MSID

Import CVA MSID

Export CVA MSID

CVA MOA Site name

BM Unit Id(s)

Whether the CVA registrant is registered as a party in CMRS.

Whether the CVA Registrant has nominated a BM Unit Id to be registered in CMRS.

Whether the Registration Effective From Date is operationally achievable.

Whether the nominated BM Unit Id is ready for Registration in CMRS when the Registration Effective From Date is Confirmed by the Transfer Co-ordinator.

Whether the MOA in the Metering Systems Registration is valid.

Whether the transfer request is valid comments/reasons for being invalid

Note:

SVA data can only be reported where this has been provided by the registrant

Physical Interface Details::

10.4 **CRA-I040: Transfer to SMRS information**

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

10.5 **CRA-I041: Transfer to SMRS report**

Interface ID: CRA-1041	User: Transfer Coordinator	Title: Transfer to SMRS report	BSC Reference: CP753
Mechanism:	Frequency:	Volumes:	
Manual	On Demand	low	

Interface Requirement:

The following information is reported to the Transfer coordinator following receipt of new transfer to SMRS information Implementatio

CVA registrant

Import SVA MSID

Export SVA MSID

Import CVA MSID

Export CVA MSID

Site name

BM Unit Id(s)

Whether the Metering System is registered in CRA

Whether the BM Unit(s) are registered in CRA

Whether the effective to date is possible

Whether the BM Unit is ready for deregistration

whether the BM Unit is part of a Trading Unit registered using CRA-F015

Whether the transfer request is valid

comments/reasons for being invalid

Note:

SVA data can only be reported where this has been provided by the registrant

Physical Interface Details:

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

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

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

Interface ID:	User:	Title:	BSC Reference:	
CDCA-I056	Transfer	Transfer from	CP753	
	Coordinator	SMRS report		
Mechanism:	Frequency:	Volumes:	•	
Manual	On Demand	d low		
Interface Requirement:				
from SMRS information SVA registrant Import SVA MS Export SVA MS Import CVA MS Export CVA MS CVA MOA Site name BM Unit Id(s) Whether aggreg Whether the BN Whether the tra comments/reas	ID ID ID ID ID ID gation rules have bee I Units and CVA Met nsfer request is valid ons for being invalid	en registered for the BM ering Systems are linked	owing receipt of new transfer Units I by the aggregation rules	
Physical Interface Detail	ils:			
The state of the s				

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

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

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

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

11 Interfaces From and To EMR Settlement Services Provider

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

Interface ID:	User:	Title:	BSC Reference:
SAA-I042	CFD Settlement Services Provider	BM Unit Gross Demand Report	EMR
Mechanism:	Frequency:	Volumes:	
Electronic data file transfer, XML	Daily	One per Settlement Run	

Interface Requirement:

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

Settlement Date Settlement Run Type BSC Party ID BM Unit ID Settlement Period

TLM-Adjusted BM Unit Gross Demand

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

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

TLM-Adjusted BM Unit Gross Demand = -TLM_{ij} * 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 = TLM_{ii} * 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.