

## **Redlined Code Subsidiary Document changes for P321 'Publication of Trading Unit Delivery Mode'**

This document contains the redlined changes to the following Code Subsidiary Documents (CSDs) for P321:

- Balancing Mechanism Reporting Agent (BMRA) Service Description
- BMRA User Requirement Specification (URS)
- Settlement Administration Agent (SAA) Service Description
- SAA URS

This document contains flow references for which a firm number has not been agreed. These references have been highlighted within this document, and will be automatically updated post-approval once the corresponding flow numbers have been confirmed.

## BMRS Service Description (Version 19.0)

Insert new Section 8E as follows:

### **8E INFORMATION FROM SAA**

**8E.1 The BMRA shall receive and store Trading Unit Data, to include Trading Unit Delivery Mode, Trading Unit Import Volume and Trading Unit Export Volume data, from SAA.**

Amend Appendix A as follows:

## **APPENDIX A INPUT OUTPUT FLOWS**

### **Balancing Mechanism Reporting Inputs:**

<b>Input Flow Description</b>	<b>Flow Received from</b>
Balancing Mechanism Data	SO
System related information (as listed in Table 1 of Annex V-1 of the BSC)	SO
TLF	CRA
Estimated TLMO	BSCCo
System Parameters	BSCCo
Balancing Services Adjustment Data (BSAD)	SO
BSC Party and BSC Party Agent Authentication details	CRA
BM Unit & Energy Account Registration Data	CRA
Market Index Data Provider Registration Data	CRA
Market Index Data Provider Threshold Data	BSCCo
Large Combustion Plant Directive Data	BSCCo
Market Index Data	Market Index Data Provider
Credit Default Notice Data	ECVAA
REMIT Data	BMRS User, SO- <del>P294</del>
Transparency Regulation Data	SO- <del>P295</del>
<b><u>Trading Unit Data</u></b>	<b><u>SAA</u></b>

### **Balancing Mechanism Reporting Outputs:**

<b>Output Flow Description</b>	<b>Flow Sent to</b>
BM Data GUI	BMRS User
System related information GUI	BMRS User
Balancing Services Adjustment Data GUI	BMRS User
Registration Data GUI	BMRS User
Credit Default Notices	BMRS User
BM Data Reports	BSC Parties

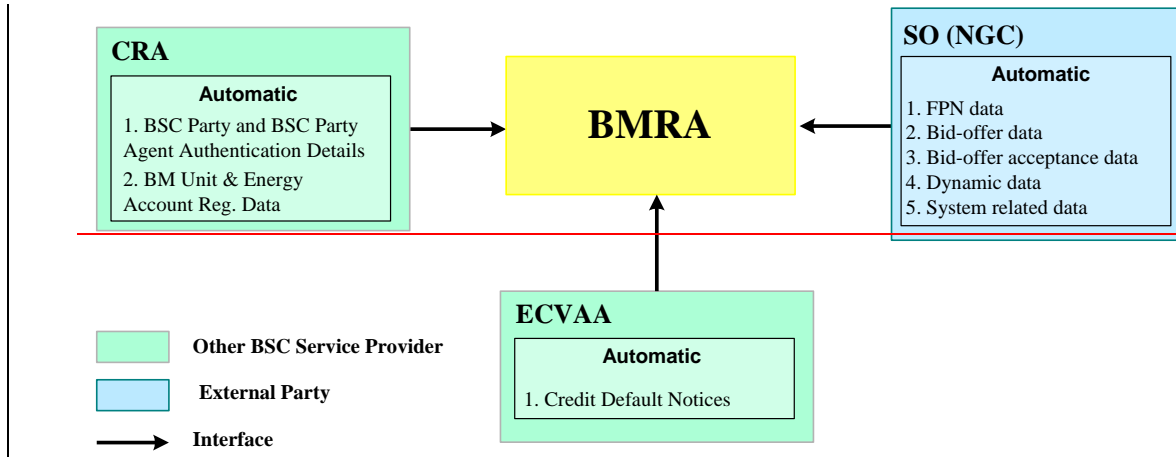
Data relating to Emergency Instructions (via 'System Warning' function)	BMRS User
Data Exception Reports	BSCCo, SO, CRA
Performance Reports	BSCCo
FPN Data	SAA
Dynamic Data	SAA
Bid-Offer Data	SAA
Bid-Offer Acceptance Data	SAA
BM Unit Applicable Balancing Services Volume	BMRS User
REMIT Data	BMRS User <del>{P294}</del>
Transparency Regulation Data	BMRS User, ENTSO-E <del>{P295}</del>
<u>Trading Unit Data</u>	<u>BMRS User</u>

## BMRS User Requirement Specification (Version 18.0)

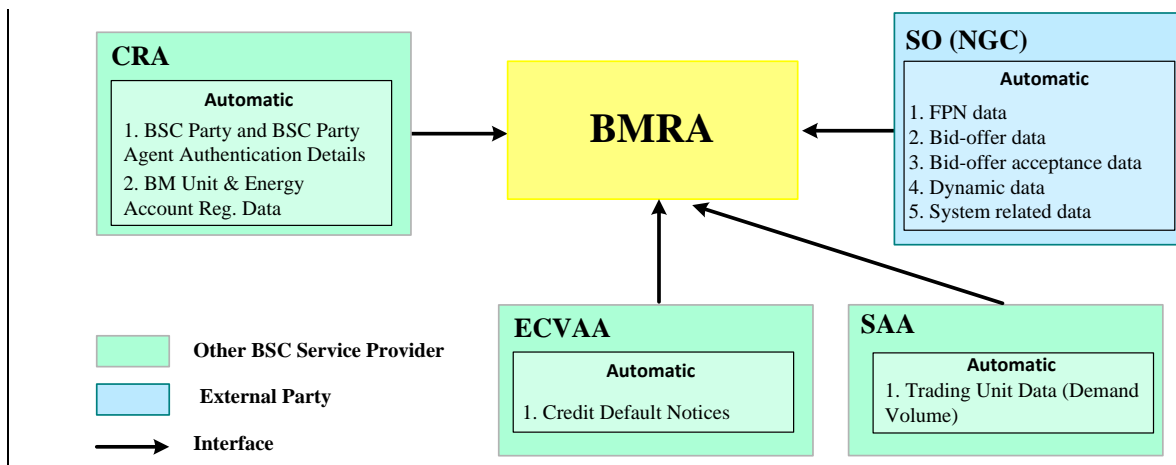
Amend Section 6.2 as follows:

### 6.2 Inbound Interface Requirements

Delete the following version of the diagram:



Insert the following version of the diagram (addition of SAA box):



## Appendix B Requirement Summary Matrix

Add the following new row to the end of the table:

Service Description Requirement Number or CR number	URS Requirement Reference Number	Notes
P321	BMRA-XXXX	

## Appendix C BMRA external data flow timings and formats

Add new Section C.8 as follows:

## **C.8 Trading Unit Data (BMRA-XXXX)**

Trading Unit Data will be received from SAA following the completion of each Settlement Run.

<u>DATA ITEM</u>	<u>TIMING</u>	<u>FORMAT</u>	<u>DEFAULT</u>	<u>COMMENTS</u>
<u>Trading Unit Data</u>	<u>Within 5 minutes of receipt.</u>	<u>Tabular</u>	<u>None</u>	

## SAA Service Description (Version 23.0)

### 2. RECEIVE INPUT DATA

#### 2.5 SVAA

*Add new paragraph 2.5.2 as follows:*

2.5.1 The SAA shall receive BM Unit Metered Volumes from the SVAA. The SAA will validate data received from SVAA.

2.5.2 The SAA shall receive Corrected Component volumes from the SVAA. The SAA will validate data received from the SVAA.

### 3. PERFORM SETTLEMENT CALCULATIONS

*Add new Section 3.59 as follows:*

#### 3.59 Determination of Trading Unit Delivery Mode

3.59.1 For the purpose of calculating and reporting the Trading Unit Delivery Mode, in respect of each Settlement Period at each Settlement Run, a Trading Unit will be identified as either ‘delivering’ to the Total System or ‘offtaking’ from the Total System in respect of any Settlement Period. This is determined by aggregating the BM Unit Metered Volumes from each non-Supplier BM Unit and the Corrected Component volumes from each Supplier BM Unit in the Trading Unit to determine whether the Trading Unit was a net importer or net exporter.

Note that, by default, a BM Unit not comprising a Trading Unit with other BM Units shall be considered to be a ‘Sole Trading Unit’ for the purposes of these calculations. The Delivery Mode of such a Trading Unit shall therefore be determined using the Metered Volume of the single BM Unit comprising that Trading Unit.

3.59.2 The Trading Unit Export Volume will be determined as:

$$QTUE_{rj} = \sum_{(non-S)} \max(QM_{ij}, 0) + \sum_{N(AE)} |CORC_{iNj}|$$

where:

$\sum_{(non-S)}$  represents the sum over all BM Units other than Supplier BM Units belonging to the Trading Unit; and

$\sum_{N(AE)}$  represents the sum over all Consumption Component Classes that are associated with active export over all Supplier BM Units belonging to the Trading Unit.

3.59.3 The Trading Unit Import Volume will be determined as:

$$QTUI_{rj} = \sum_{(non-S)} \min(QM_{ij}, 0) - \sum_{N(AI)} |CORC_{iNj}|$$

where:

$\Sigma_{(non-S)}$  represents the sum over all BM Units other than Supplier BM Units belonging to the Trading Unit; and

$\Sigma_{N(AT)}$  represents the sum over all Consumption Component Classes that are associated with active import over all Supplier BM Units belonging to the Trading Unit.

#### 3.59.4 The Trading Unit Delivery Mode will be determined as

"Delivering" if  $QTUE_{rj} + QTUI_{rj} > 0$ ; or

"Offtaking" if  $QTUE_{rj} + QTUI_{rj} \leq 0$ .

*Amend Appendix A as follows:*

## **Appendix A – Input Output Flows**

### **A1. SAA Inputs**

<b>Input Flow Description</b>	<b>Flow Received From</b>
BSC Party and BSC Party Agent Authentication details	CRA
Payment Calendar	FAA
Balancing Mechanism Data	BMRA (originally from Transmission Company)
BM Unit Metered Volumes	CDCA
Interconnector Meter Flow	CDCA
GSP Group Take	CDCA
Deemed Metered Amounts for an Interconnector User	Interconnector Administrator
Account Bilateral Contract Volume	ECVAA
Metered Volume Reallocations for Settlement	ECVAA
BM Unit and Energy Account registration data	CRA
TLF and proportion of losses allocated to BM Units in delivering Trading Units	BSCCo
BSCCo costs	BSCCo
Supplier Volume Allocations	SVAA
Dispute notification	BSC Party, Transmission Company, BSCCo
System Parameters	BSCCo
Balancing Services Adjustment Data (BSAD)	Transmission Company
Acceptance Data relating to Emergency Instruction <sup>1</sup>	Transmission Company
Authorisation to use amended BSAD in live Settlement Run <sup>2</sup>	BSCCo

<sup>1</sup> Authorisation from BSCCo is to be sought prior to inputting this data into the SAA database.

BM Unit Applicable Balancing Services Volume	Transmission Company
Receive settlement run decision	BSCCo <sup>3</sup>
Receive settlement run instructions	BSCCo <sup>4</sup>
Receive form F14/05 'Instruction to resolve Manifest Error'	BSCCo (Disputes Secretary)
Receive Notification of Invalidity (of Credits and Debits Report)	FAA
Market Index Data Provider Registration Data	CRA
Market Index Data Provider Threshold Data	BSCCo
Market Index Data	Market Index Data Provider
BM Unit SVA Gross Demand	SVAA
<u>Corrected Component volumes</u>	<u>SVAA</u>

## A2. SAA Outputs

Output Flow Description	Flow Sent To
Settlement Calendar	All BSC Parties and BSCCo
Initial Credits/Debits	FAA, ECVAA
Credits/Debits (revised)	FAA
Settlement Reports (Scheduled)	BSC Trading Party
Settlement Reports (Requested)	BSC Party
Settlement Reports (Summarised)	BSCCo
Settlement Reports (Transmission Company)	Transmission Company
Settlement Reports (Scheduled)	EMR Settlement Services Provider
Data Exception Reports	Transmission Company, IA, SVAA or EVCAA as required.
Performance Reports	BSCCo
Dispute details	BSC Party, BSCCo, Transmission Company
Completed form F14/05 'Instruction to Resolve Manifest Error'	BSCCo (Disputes Secretary)
Settlement Calendar	CDCA
Report pre-settlement run validation failure	BSCCo <sup>5</sup>
Withdrawing Party Settlement Details	CRA
Confirmation that amendments to BSAD have generated the desired Energy Imbalance Prices relating to an Excluded Emergency Acceptance	BSCCo

<sup>2</sup> This applies where BSAD has been amended to achieve the desired Energy Imbalance Prices arising from an Excluded Emergency Acceptance.

<sup>3</sup> All instances of this flow must be initiated or confirmed by e-mail for auditability

<sup>4</sup> All instances of this flow must be initiated or confirmed by e-mail for auditability

<sup>5</sup> All instances of this flow must be initiated or confirmed by e-mail for auditability



BSC Section D Charging Data	BSCCo
BM Unit Gross Demand	CFD Settlement Services Provider
<u>Trading Unit Data</u>	<u>BMRA</u>

## SAA User Requirement Specification (Version 18.0)

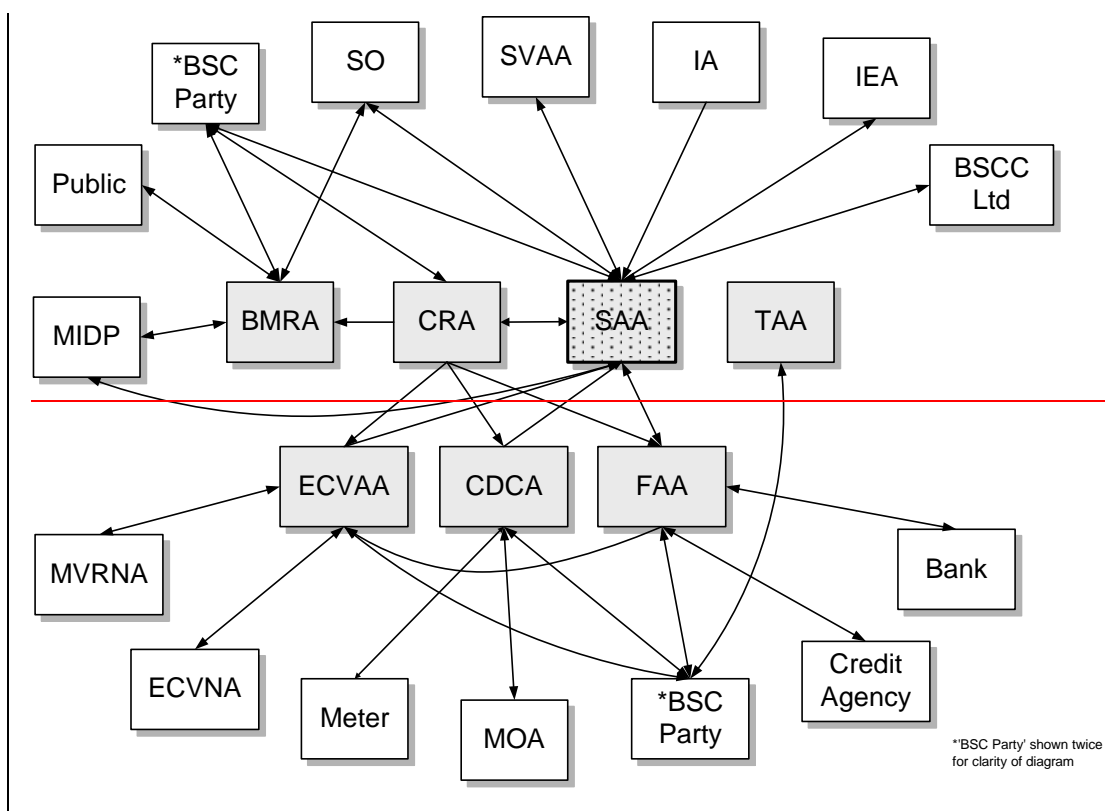
### 4 Business and System Overview

Amend Section 4.3 as follows:

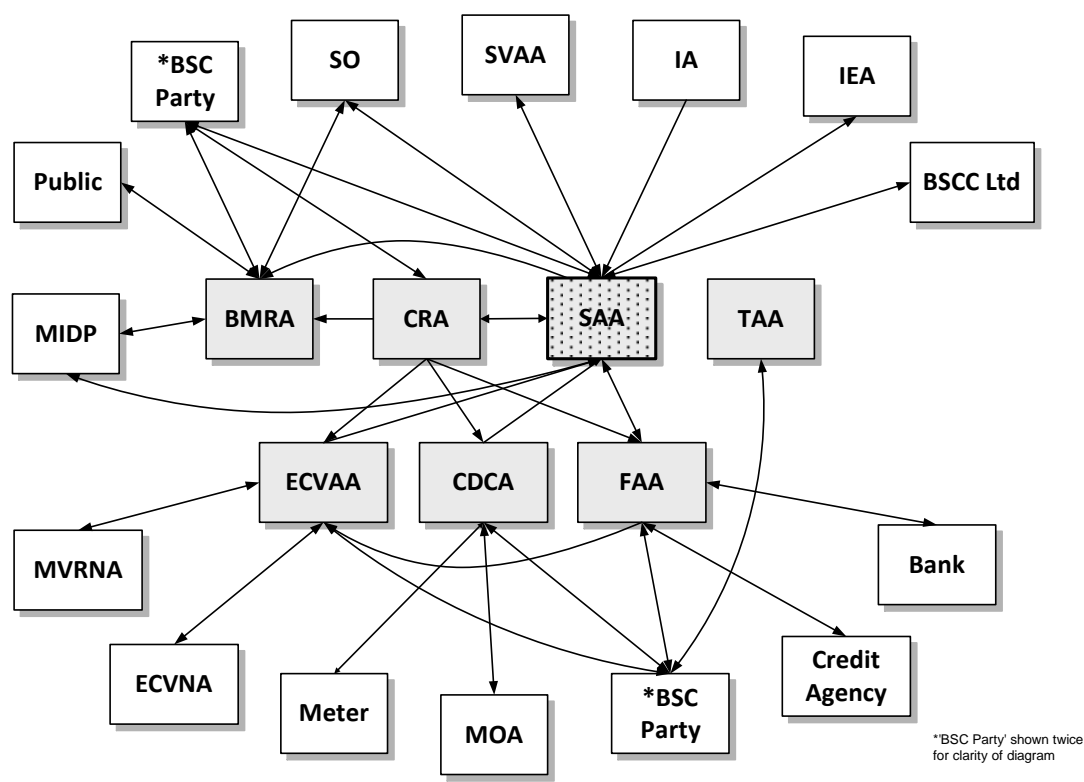
#### 4.3 Service Context

The following diagram illustrates the context of the SAA service within the wider market of the Balancing and Settlement Code. This is a simplified view for clarity; section 6 describes the interfaces from the SAA service to other parties in detail.

Delete the following version of the diagram:



Insert the following version of the diagram (addition of line from SAA to BMRA):



#### 4.4 Requirements Summary

Add the following new rows into the table in Section 4.4 in numerical order as follows:

Requirement ID.	User Requirement
<i>Functional</i>	
<b>SAA-FXXX</b>	<u>Calculate Trading Unit Data</u>
<i>Interface</i>	
<b>SAA-IXXX</b>	<u>Reporting of Corrected Component volumes</u>
<b>SAA-IYYY</b>	<u>Reporting of Trading Unit Data</u>

Insert new Section 5.XX as the next available paragraph number in Section 5 as follows:

#### **5.XX SAA-FXXX: Calculate Trading Unit Data**

<b>Requirement ID:</b> <b>SAA-FXXX</b>	<b>Status:</b> <u>Mandatory</u>	<b>Title:</b> <u>Calculate Trading Unit Data</u>	<b>BSC reference:</b> <u>P321</u>
<b>Man/auto:</b> <u>Automatic</u>	<b>Frequency:</b> <u>Once, on each Settlement Run</u>	<b>Volumes:</b>	
<b>Functional Requirement:</b>			
<u>The SAA shall determine Trading Unit Data for each Trading Unit for each Settlement Period at each Settlement Run. This data shall comprise of the Trading Unit Export Volume, the Trading Unit Import Volume and the Trading Unit Delivery Mode.</u>			

The Trading Unit Export Volume shall be determined as:

$$QTUE_{ij} = \Sigma_{(non-S)} \max(QM_{ij}, 0) + \Sigma_{N(AE)} |CORC_{iNj}|$$

where:

$\Sigma_{(non-S)}$  represents the sum over all BM Units other than Supplier BM Units belonging to the Trading Unit; and

$\Sigma_{N(AE)}$  represents the sum over all Consumption Component Classes that are associated with active export over all Supplier BM Units belonging to the Trading Unit.

The Trading Unit Import Volume shall be determined as:

$$QTUI_{ij} = \Sigma_{(non-S)} \min(QM_{ij}, 0) - \Sigma_{N(AD)} |CORC_{iNj}|$$

where:

$\Sigma_{(non-S)}$  represents the sum over all BM Units other than Supplier BM Units belonging to the Trading Unit; and

$\Sigma_{N(AD)}$  represents the sum over all Consumption Component Classes that are associated with active import over all Supplier BM Units belonging to the Trading Unit.

The Trading Unit Delivery Mode shall be determined as

"Delivering" if  $QTUE_{ij} + QTUI_{ij} > 0$ ; or

"Offtaking" if  $QTUE_{ij} + QTUI_{ij} \leq 0$ .

The SAA shall report Trading Unit Data for each Trading Unit for each Settlement Period for each Settlement Run to the BMRA via SAA-IYYY.

#### **Non Functional Requirement:**

#### **Interfaces:**

SAA-IXXX: Reporting of Corrected Component volumes

SAA-IYYY: Reporting of Trading Unit Data

## **6 Interface Requirements**

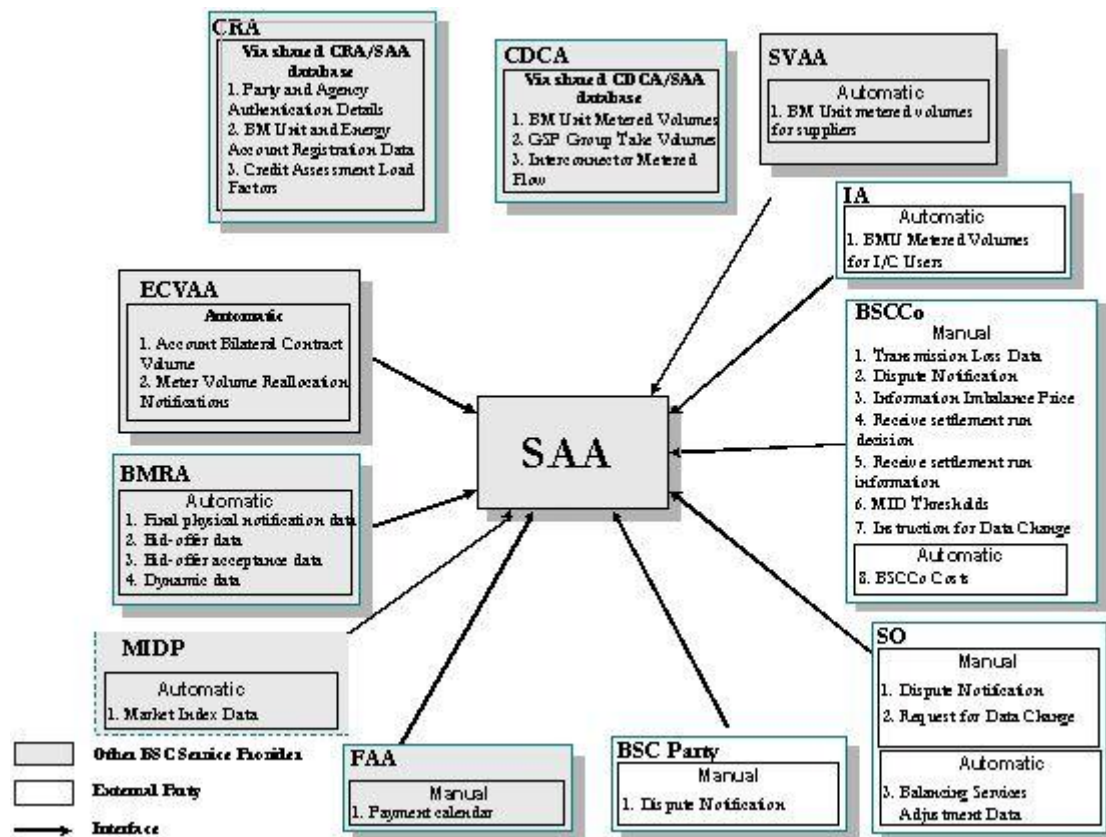
*Add the following new row to the table in Section 6 in numerical order as follows:*

Req't No.	Interface Requirement	Inbound/ Outbound	Interface User (IU)	Mechanism
<u>SAA- IXXX</u>	<u>Reporting of Corrected Component volumes</u>	<u>Inbound</u>	<u>SVAA</u>	<u>Manual</u>
<u>SAA- IYYY</u>	<u>Reporting of Trading Unit Data</u>	<u>Outbound</u>	<u>BMRA</u>	<u>Manual</u>

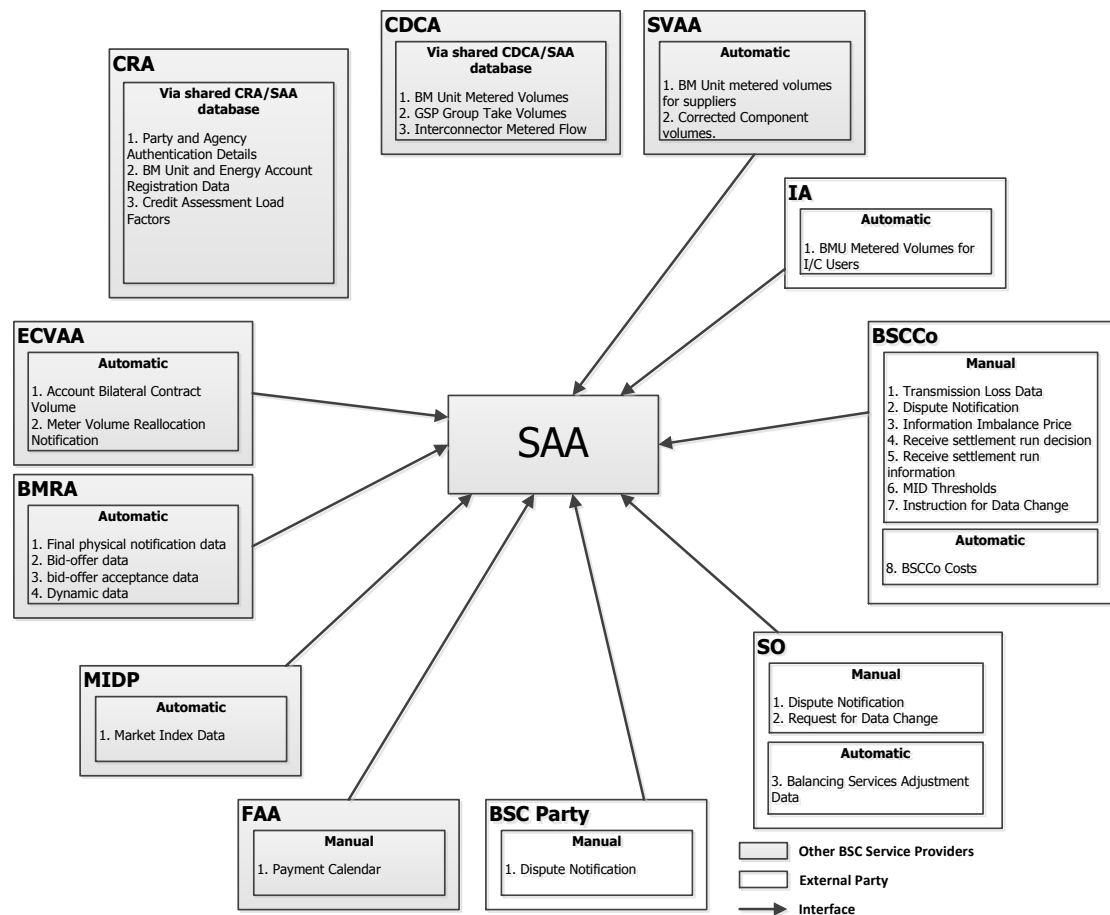
*Amend the following diagrams in Section 6 as follows:*

The following diagrams illustrate these interface requirements.

*Delete the following version of the diagram:*

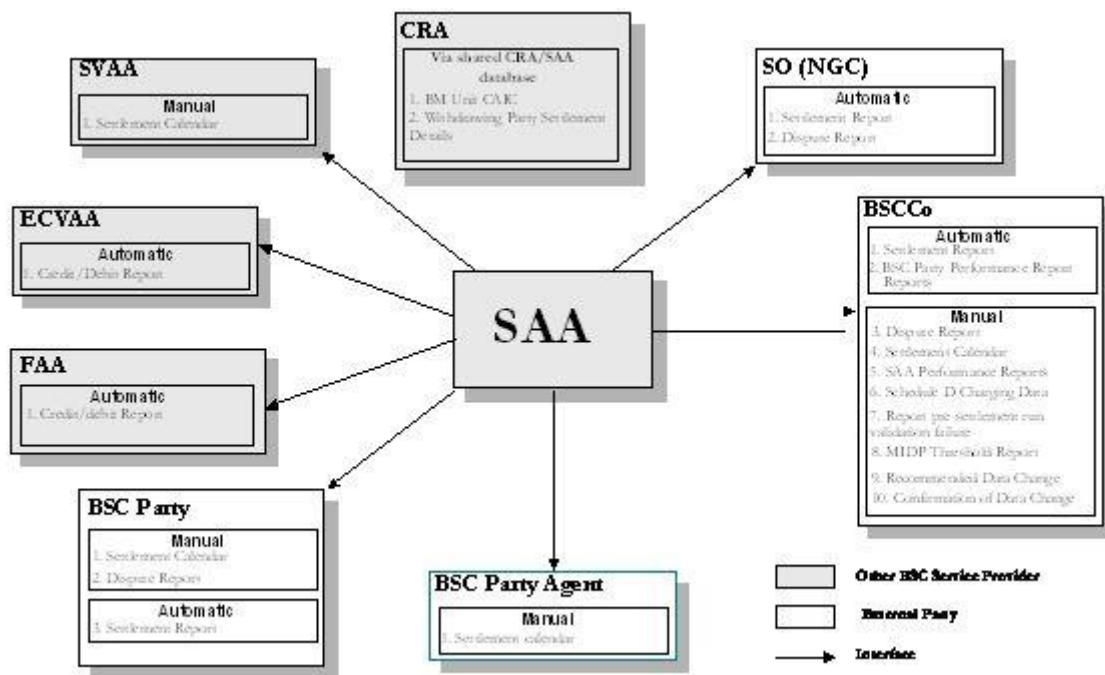


*Insert the following version of the diagram (addition of 'Corrected Component volume' to SVAA box):*

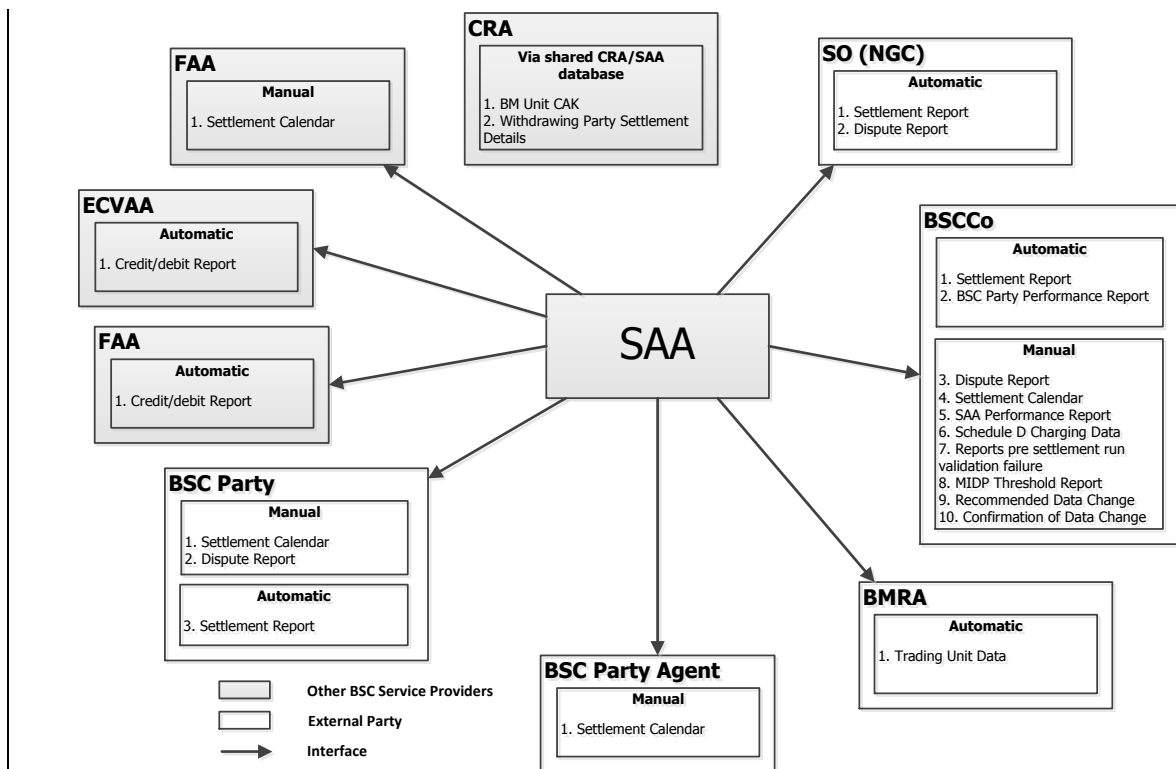


## SAA Service: Inbound Interface Requirements

Delete the following version of the diagram:



Insert the following version of the diagram (addition of BMRA box):



**SAA Service: Outbound Interface Requirements<sup>6</sup>**

## Appendix B Requirements Compliance Matrix

Add the following rows to the first table in numerical order as follows:

Service Description Requirement Number	URS Requirement Reference Number	Notes
<u>2.5.2</u>	SAA-FXXX SAA-IXXX	
<u>3.59</u>	SAA-FXXX SAA-IXXX SAA-IYYY	

Add the following rows to the end of the second table as follows:

Change Notice or Clarification Note	URS Requirement Reference Number	Notes
<u>P321</u>	SAA-FXXX SAA-IXXX SAA-IYYY	

<sup>6</sup> Note that details of the SAA-I017 (Data Exception Report) flow have not been included in this diagram, in order to avoid excessive clutter.