

CP1453 'Changes to SAA Service Description and SAA URS for P269 systems fix'



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About This Document

This document is the Final Change Proposal (CP) Report for CP1453 which ELEXON has published following the final decision from the Imbalance Settlement Group (ISG) to approve CP1453.

There are four parts to this document:

- This is the main document. It provides details of the solution, impacts, costs, and proposed implementation approach. It also summarises the views of respondents to the CP Consultation, along with the final decision on whether to approve this change.
- Attachments A and B contain the approved redlined changes to deliver the CP1453 solution.
- Attachment C contains the full responses received to the CP Consultation.

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Final CP Report

3 March 2016

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1 Why Change?

What was the intention of P269?

Approved Modification [P269 'Prevention of Base Trading Unit BMUs' Account Status Flipping from Consumption to Production \(the "Flipping" mod\)'](#) was implemented on 23 February 2012.

P269 sought to stop the Production/Consumption (P/C) Status of (non-Exempt Export¹) Supplier BM Units in Base Trading Units 'flipping' from Consumption to Production in a particular circumstance. That is if the sum of BM Unit Relevant Capacities² in the Base Trading Unit became positive and greater than zero. It was a future-proofing change as, at the time it was progressed, this scenario had not occurred. P269's solution was to fix these BM Units' P/C Status as Consumption regardless of the Base Trading Unit's overall Relevant Capacity.

What is the issue?

On 1 June 2015, the sum of the BM Unit Relevant Capacities in a Base Trading Unit was greater than zero for the first time. The solution implemented by P269 failed to have its intended effect, and the P/C Status of all (non-Exempt Export) Supplier BM Units in the North Scotland GSP Group 'flipped' from Consumption to Production. We quickly implemented a manual workaround to flip the Base Trading Unit back to Consumption before this could impact BSC Parties' Trading Charges. We are continuing to operate this workaround successfully.

At its meeting on 9 July 2015, the BSC Panel endorsed us undertaking a lessons learned exercise to understand why P269 failed and to identify an enduring solution.

What caused the failure?

The root cause of P269's failure is that the Settlement Administration Agent (SAA) systems are duplicating the P/C Status calculation performed by the Central Registration Agent (CRA) systems. This duplicated SAA calculation is not described in any SAA documents; this appears to have been a consequence of design decisions taken by the NETA Programme before Go-Live in 2001. The BSC Systems documentation indicates that the CRA is the definitive source of P/C Status, and P269 therefore only amended the CRA systems and documentation. The SAA systems continue to perform their pre-P269 (and incorrect) P/C Status calculation.

The lessons learned exercise concluded that removing the SAA's duplicated functionality entirely would be problematic due to other existing practical limitations within the CRA systems. Attempting to do so would impact both the CRA and the SAA systems and all BM Units (not just those affected by the immediate P269 issue). It would therefore involve increased risk, cost and time.

¹ Exempt Export BM Units independently choose whether their P/C Status is Production or Consumption.

² Based on the BM Units' Generation Capacity (GC) and Demand Capacity (DC) values.

What is the enduring solution?

ELEXON will implement an enduring fix to the SAA systems on 12 April 2016. This will therefore take effect before the start of the BSC Summer Season on 1 June 2016 (when Relevant Capacities are recalculated and are most likely to exceed zero in the North Scotland Base Trading Unit). This fix will involve:

- Removing, as far as possible, the SAA system's full duplicated, Relevant Capacity-based calculation of P/C Status;
- Retaining some P/C Status determination logic in the SAA systems that, while still duplicating the CRA, uses other interim data from the CRA calculation to minimise the duplication required and ensures that the CRA and the SAA perform identical determinations of P/C Status; and
- Ensuring that the detailed SAA system design and specification documents fully capture the steps followed by the SAA to determine and use P/C Status.

The SAA systems fix will deliver the original intention of P269 as set out in BSC Section K3.5.7. It will remove the need for the workaround and will have no impact on Parties.

Further information on the enduring solution can be found in the P269 lessons learned report which was presented to the BSC Panel on 14 January 2016 ([Panel 248/06](#)).

Approved solution

[CP1453 'Changes to SAA Service Description and SAA URS for P269 systems fix'](#) was raised by ELEXON on 7 January 2016.

As part of implementing the enduring solution described in Section 1 above, we will ensure that the detailed SAA system design and specification documents fully capture the steps used by the SAA to determine and use P/C Status.

With the exception of the SAA Service Description and the SAA User Requirements Specification (URS), the affected systems documents are not Configurable Items and so we will update these in parallel with the system changes. As the SAA Service Description and URS are Configurable Items, we have raised this CP to progress the necessary changes to them.

For the avoidance of doubt, this CP is a consequential change as a result of the P269 systems fix. The actual fix to the BSC central Systems is separate to this CP.

Proposer's rationale

Changes are required to the SAA Service Description and the SAA URS to document the SAA's determination and use of P/C Status.

Approved redlining

Attachments A and B contain the approved changes to the [SAA Service Description](#) and [SAA URS](#) to deliver CP1453.

The SAA Service Description and SAA URS set out high-level business requirements. We have avoided duplicating a full description of the P/C Status rules in these documents, as these are already set out in the CRA Service Description and CRA URS. Instead, we have captured the requirement for the SAA to determine P/C Status using the same rules as the CRA (cross-referencing the relevant CRA Configurable Items), while leaving it to the lower-level system documents to describe in detail how the SAA systems achieve this. This will ensure that any future proposed changes to the P/C Status rules do not miss the need to amend the SAA as well as the CRA systems and documents.

We have also amended the SAA Service Description and SAA URS to include a requirement reflecting how the SAA uses P/C Status to allocate volumes as part of the Credited Energy Volume calculation. This remains unchanged in the systems themselves but we have captured the requirement for completeness as it is not currently included in these documents.

3 Impacts and Costs

Central impacts and costs

CP1453 requires changes to the SAA Service Description and SAA URS.

No system changes are required as part of this CP. The central implementation costs for CP1453 will be approximately £240 (one ELEXON man day) to implement the relevant document changes. The [P269 lessons learned report](#) provides details on the implementation costs for the actual fix to the BSC central Systems. This fix is being progressed separately to this CP.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none">SAA Service DescriptionSAA URS	<ul style="list-style-type: none">None

BSC Party & Party Agent impacts and costs

The proposed system fix delivers the original intention of P269. As it does not change the BSC's existing rules regarding P/C Status, BSC Parties and Party Agents need take no action.

The one respondent to the CP Consultation confirmed that, as CP1453 simply documents the high-level SAA requirements to support the system fix, there are no impacts or costs associated with the change.

4 Implementation Approach

Approved Implementation Date

CP1453 will be implemented as a standalone change on **12 April 2016**. This is to align with the date of the BSC central Systems fix to deliver the original intention of P269.

The one respondent to the CP Consultation agreed with the proposed Implementation Date.

5 Industry Views

This section summarises the responses received to the CP Consultation. You can find the full responses in Attachment C.

Summary of CP1453 CP Consultation Responses				
Question	Yes	No	Neutral/ No Comment	Other
Do you agree with the CP1453 proposed solution?	1	0	0	0
Do you agree that the draft redlining delivers the intent of CP1453?	1	0	0	0
Will CP1453 impact your organisation?	0	1	0	0
Will your organisation incur any costs in implementing CP1453?	0	1	0	0
Do you agree with the proposed implementation approach for CP1453?	1	0	0	0
Do you have any further comments on CP1453?	0	1	0	0

Comments on the CP

The one respondent to the CP Consultation agreed with the proposed changes for CP1453. They did not provide any further comments on the change.

Comments on the proposed redlining

The one respondent to the CP Consultation agreed that the proposed redlined changes to SAA Service Description and SAA URS deliver the intention of CP1453.

ISG's final views

The ISG considered CP1453 at its meeting on 23 February 2016 ([ISG178/04](#))

An ISG Member queried how much the system fix will cost and who will be paying for the work. The Executive Sponsor advised that the system fix will cost £68k (as detailed in the [Panel 248/06](#) paper) and that this figure has been highlighted to the BSC Panel. He noted that BSC Parties will pay the costs associated with the system fix because ELEXON were unable to determine that the problem was solely down to the Service Provider. Therefore, the Service Provider is not contractually liable to pay for the error.

An ISG Member noted that section 3.36.2 of the redlined changes to the SAA URS refers to the rules applied by the CRA for the corresponding Settlement day. The member questioned whether it would be better to refer to the BSC text rather than the CRA. ELEXON advised that interpreting the BSC text can be difficult, especially where the systems are involved. Therefore, for clarity we felt that referring to the action taken by the CRA for the P/C status would be the most pragmatic approach. ELEXON added that there is quite a leap from the BSC to the system documents and therefore it is easier to keep the details in the lower level documents.

Final decision

The ISG has:

- **APPROVED** CP1453 for implementation on 12 April 2016 as a standalone Release.

Appendix 1: Glossary & References

Acronyms

Acronyms used in this document are listed in the table below.

Acronyms	
Acronym	Definition
BM	Balancing Mechanism
BSC	Balancing and Settlement Code (<i>Industry Code</i>)
CP	Change Proposal
CPC	Change Proposal Circular
CRA	Central Registration Agent
DC	Demand Capacity
GC	Generation Capacity
ISG	Imbalance Settlement Group (<i>Panel Committee</i>)
P/C	Production/Consumption
SAA	Settlement Administration Agent
URS	User Requirements Specification

External links

A summary of all hyperlinks used in this document are listed in the table below.

All external documents and URL links listed are correct as of the date of this document.

External Links		
Page(s)	Description	URL
2	P269 page on the ELEXON website	https://www.elexon.co.uk/mod-proposal/p269-prevention-of-base-trading-unit-bmus-account-status-flipping-from-consumption-to-production-the-flipping-mod/
3	BSC Panel page on the ELEXON website (Panel paper 248/06)	https://www.elexon.co.uk/meeting/bsc-panel-248/
4	CP1453 page on the ELEXON website	https://www.elexon.co.uk/change-proposal/cp1453/
4	Service Descriptions page on the ELEXON website	https://www.elexon.co.uk/bsc-related-documents/related-documents/service-descriptions/
4	User Requirements Specification page on the ELEXON website	https://www.elexon.co.uk/bsc-related-documents/related-documents/user-requirement-specifications/
7	ISG178 page on the ELEXON website	https://www.elexon.co.uk/meeting/isg-178/

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