

CP1418 'Validation of D0041 flows'



Any questions?

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About This Document

This document is the Change Proposal (CP) 1418 Final CP Report which ELEXON has published following the final decision from the Supplier Volume Allocation Group (SVG) to approve CP1418.

There are three 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 SVG's views on the proposed changes and the views of respondents to the CP Consultation, along with the final decision to approve this change.
- Attachment A contains the approved redlined changes to deliver the CP1418 solution.
- Attachment B contains the full responses received to the CP Consultation.

Trading Dispute DA628: duplicate rows in a D0041 flow

Trading Dispute DA628 was raised following seven erroneous [D0041 'Supplier Purchase Matrix Data File'](#) data flows being produced by a Non Half Hourly Data Aggregator (NHHDA). These erroneous submissions contained duplicated rows of Profile Class (PC), Distributor, Line Loss Factor Class (LLFC), Standard Settlement Configuration (SSC) and Time Pattern Regime (TPR). This duplication caused consumption to be overstated in excess of 30GWh at the Post-Final Reconciliation Run (DF) in seven Grid Supply Point (GSP) Groups. Trading Dispute DA628 was upheld by the Trading Disputes Committee (TDC) at its meeting on 8 January 2014 ([TDC186](#)) and rectified via an Extra-Settlement Determination (ESD). The total materiality of the ESD came to approximately £1m and impacted the Trading Charges of 75 Trading Parties.

As part of the Trading Dispute it was identified that this issue was caused by the NHHDA in question making manual amendments to its systems, causing an aggregation run to be performed twice for the same Settlement Date and Settlement Run Type. This resulted in two rows being inserted into the erroneous D0041 flow for each impacted PC/Distributor/LLFC/SSC/TPR combination, but with differing consumption values and Metering System identifier (MSID) counts due to the aggregation runs that caused the duplication being performed at different times.

What is the issue?

D0041 flows should never contain duplicate PC/Distributor/LLFC/SSC/TPR rows. However, both the NHHDA and the Supplier Volume Allocation Agent (SVAA) systems supported the creation and processing of these erroneous files, which allowed the erroneous volumes to enter into Settlement. This error highlights a limitation in both systems for permitting the creation and processing of the files. Additional validation checks are required within the SVAA system to ensure that this issue does not arise again.

Proposed solution

[CP1418 'Validation of D0041 flows'](#) proposes to produce a temporary staging table within the SVAA system when it is processing individual D0041 flows. This temporary staging table will create a unique record for all PC/Distributor/LLFC/SSC/TPR rows loaded. If a duplicate PC/Distributor/LLFC/SSC/TPR row is inserted into the table, an error message will be produced and the file will fail processing. Upon failure, the error log will detail the reason for the failure. The SVAA will then contact the originating NHHDA for the D0041 flow and advise the reason for the failure.

Whilst the SVAA system did not play a part in the creation of the erroneous D0041 flows, it was the system used to load the files following their creation. When loading the erroneous D0041 flows, no warning messages were raised stating that duplication of PC/Distributor/LLFC/SSC/TPR combinations existed within the files. This has highlighted a lack of validation within the SVAA system.

Approved redlining

The approved redlining to the SVAA User Requirements Specification (URS) to deliver CP1418 can be found in Attachment A.

The redlining has been amended from the version issued in the CP Consultation to clarify that a duplicate PC/Distributor/LLFC/SSC/TPR row would only be invalid if it was also for the same Supplier and GSP Group combination.

3 Impacts and Costs

Central impacts and costs

Central impacts

CP1418 will require updates to be made to the SVAA systems to implement the proposed changes. This CP will also require updates to the SVAA URS to implement the proposed solution, and you can find the proposed changes in Attachment A. The lower-level SVAA system documentation will be updated as part of the implementation of this CP.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none">SVAA URS	<ul style="list-style-type: none">SVAA

Central costs

The central implementation costs for CP1418 will be approximately £33k. These costs are required to develop, test and deploy the changes to the SVAA systems as well as for ELEXON to implement the relevant document changes.

BSC Party & Party Agent impacts and costs

Participant impacts

This solution will only impact the SVAA systems and will not affect the D0041 flow itself, and therefore should not impact any BSC Parties or Party Agents. No respondents to the CP Consultation indicated any impacts on their organisations to implement CP1418.

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	Impact
-	<i>No BSC Party or Party Agent impacts</i>

Participant costs

No respondents to the CP Consultation indicated any costs required to implement CP1418.

4 Implementation Approach

Approved Implementation Date

CP1418 has been approved for implementation on **26 February 2015** as part of the February 2015 BSC Systems Release.

The lead time required to implement CP1418 is 13 weeks. The February 2015 Release was therefore the earliest Release that this CP could be included in.

No respondents to the CP Consultation disagreed with the proposed Implementation Date.

5 Initial Committee Views

SVG's initial views

The SVG considered potential solutions to the issue of erroneous D0041 flows at its meeting on 3 June 2014 ([SVG160/02](#)). When considering this issue, the SVG also considered a solution that would make changes to the NHHDA systems to prevent erroneous rows from being produced. The central impacts and costs for this option would be less when compared to the proposed solution, but there would be participant impacts and costs and therefore a potentially higher industry implementation cost overall.

The SVG noted that a SVAA change will place a control at the point of entry to Settlement. This will ensure that files with duplicate consumption never enter Settlement no matter how they are created. It also allows for ELEXON to have oversight of any files rejected by the SVAA, whereas a NHHDA change would stop files with duplicate consumption from being created but would not give this visibility.

The SVG also noted that the Performance Assurance Board (PAB) and the BSC Auditor were addressing the root cause of DA628 as a performance issue. However, given the high materiality of DA628 and previous related Trading Dispute DA391¹, it agreed that there should be some basic systems validation to prevent duplicate D0041 flows from entering Settlement.

The SVG therefore considered that the proposed amendments to the SVAA systems would be the more pragmatic option to resolve this issue, and requested that this CP be raised to progress the agreed solution.

¹ This Dispute also related to duplicate D0041 consumption. Although the root cause was different, the erroneous files again entered Settlement. The associated Supplier's Trading Charges were negatively impacted by approximately £3.9m.

6 Industry Views

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

Summary of CP1418 CP Consultation Responses				
Question	Yes	No	Neutral/ No Comment	Other
Do you agree with the CP1418 proposed solution?	8	0	1	0
Will CP1418 impact your organisation?	0	9	0	0
Will your organisation incur any costs in implementing CP1418?	0	9	0	0
Do you agree with the proposed implementation approach for CP1418?	7	0	2	0
Do you have any further comments on CP1418?	1	8	0	0

Comments on the CP

Several respondents to the CP Consultation noted that they agreed with the proposed changes as this would ensure that if any such issue with the D0041 flow were to re-occur, the impacts would not enter Settlement.

One respondent wanted to ensure that, were such an erroneous D0041 flow be identified by the validation check, the Supplier would be notified accordingly. We confirmed to them that CP1418 will simply add in a further check to the SVAA's validation of a D0041 flow. It does not seek to amend how the errors are reported, where the SVAA would issue a P0035 'Invalid Data' report back to the NHHDA informing it of the reason for the D0041 flow failing validation, and the NHHDA would be required to resubmit the flow.

Comments on the proposed redlining

No comments were received on the proposed redlined changes to the SVAA URS for CP1418.

SVG's final views

The SVG considered the responses to the CP Consultation at its meeting on 2 September 2014 ([SVG163/06](#)). SVG Members had no comments on the solution or the proposed implementation approach.

The SVG noted a recommendation from ELEXON that a non-material change to the proposed redlining to the SVAA URS should be made to clarify that a duplicate PC/Distributor/LLFC/SSC/TPR row would only be invalid if it was also for the same Supplier and GSP Group combination. The SVG accepted this recommendation and the revised redlining can be found in Attachment A.

Final decision

The SVG has:

- **APPROVED** CP1418 for implementation on 26 February 2015 as part of the February 2015 BSC Systems Release.

Appendix 1: Glossary & References

Acronyms

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

Glossary of Defined Terms	
Acronym	Definition
CP	Change Proposal
DF	Post-Final Reconciliation Run
ESD	Extra-Settlement Determination
GSP	Grid Supply Point
LLFC	Line Loss Factor Class
MSID	Metering System Identifier
NHHDA	Non Half Hourly Data Aggregator (<i>Party Agent</i>)
PAB	Performance Assurance Board (<i>Panel Committee</i>)
PC	Profile Class
SSC	Standard Settlement Configuration
SVAA	Supplier Volume Allocation Agent (<i>BSC Agent</i>)
SVG	Supplier Volume Allocation Group (<i>Panel Committee</i>)
TDC	Trading Disputes Committee (<i>Panel Committee</i>)
TPR	Time Pattern Regime
URS	User Requirements Specification (<i>Document</i>)

DTC data flows and data items

DTC data flows and data items referenced in this document are listed in the table below.

DTC Data Flows and Data Items	
Number	Name
D0041	Supplier Purchase Matrix Data File

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	D0041 flow in the DTC	http://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0041&FlowVers=1&searchMockFlows=False

External Links		
Page(s)	Description	URL
2	TDC186 webpage on the ELEXON website	http://www.elexon.co.uk/meeting/tdc-186/
3	CP1418 webpage on the ELEXON website	http://www.elexon.co.uk/change-proposal/cp1418/
5	SVG160 page on the ELEXON website	http://www.elexon.co.uk/meeting/svg-160/
7	SVG163 page on the ELEXON website	http://www.elexon.co.uk/meeting/svg-163/