

Interim Issue Report

Issue 69 'Performance Assurance Framework Review'



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About This Document

This document is the Issue 69 Group's interim Report. ELEXON presented this interim report to the Performance Assurance Board (PAB) on 29 June 2017.

In the meeting, the PAB noted that cross code governance structure is an additional risk which has not been included in the interim smart risk register. Furthermore, PAB agreed that the interim smart risk register has identified all other significant smart risks; and that ELEXON progresses the package of smart risk mitigations.

ELEXON will table this interim report at the BSC Panel meeting on 13 July 2017 for information.

There are two parts to this document:

- This is the main document. It provides details of the Issue Group's discussions and proposed solutions to the highlighted issue and contains details of the Workgroup's membership.
- Attachment A contains the smart risk evaluation report.

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1 Summary

Background

The current Performance Assurance Framework (PAF) provides for a flexible, integrated approach to the deployment of techniques. ELEXON and the PAB have identified opportunities to further enhance the application of the risk-based PAF envisaged in [P207 'Introduction of a new governance regime to allow a risk based Performance Assurance Framework \(PAF\) to be utilised and reinforce the effectiveness of the current PAF'](#), to address the challenges of a changing industry. Subsequently, a review of the PAF was agreed as an element of the 2016/17 Panel Strategic Work Programme (SWP).

At its March 2017 meeting, the BSC Panel approved the scope and delivery approach of the PAF review ([264/07](#)), which has been divided into the following four work streams.

- Smart Metering
- Risk Evaluation Methodology (REM) and other PAF procedures;
- Data Provision; and
- Performance Assurance Techniques.

Therefore, ELEXON raised [Issue 69 'Performance Assurance Framework Review'](#) on 30 March 2017.

This Issue Group will explore the issues with PAF stakeholders, identify possible solutions and specify requirements; across all four work streams. In order to address the four work streams, approximately two Workgroup meetings will be held for each of the four work streams. The outcomes of each of these work streams will be documented in a series of interim Issue reports, which will be presented to both the PAB and BSC Panel.

Work stream 1 – Smart Metering

The first Issue 69 work stream is smart metering, with a specific focus on the immediate risks to Settlement presented by the mass roll-out of smart Meters. The objective of this work stream is to develop a smart risk register and to identify any targeted assurance work that should be undertaken to assess and mitigate negative impacts on Settlement.

The first workgroup was held on 25 April 2017. The meeting was run as an interactive workshop. The workgroup members identified potential and known risks around ten risk areas. These risks were then assessed in terms of likelihood and impact, in order to determine a risk rating. The workgroup also considered the lessons learned from:

- The 'Foundation' arrangements – i.e. the roll-out of Meters complying with version 1.0 of the Smart Metering Equipment Technical Specifications (SMETS1) and other 'smart', but not SMETS1 compliant, Meters;
- The roll-out of Advanced Meters; and
- The implementation of Modification [P272 'Mandatory Half Hourly Settlement for Profile Classes 5-8'](#).

The second meeting was held on 24 May 2017. The meeting reviewed the draft smart risk register, and identified risk mitigation and PAF changes for inclusion within the smart risk register.

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Conclusions

The Issue 69 Workgroup for work stream 1 recommended that an interim report, showing the Smart Risk Register, be presented to the PAB and tabled at the BSC Panel meeting.

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2 Issue Group's Discussions

Smart Risk Register

Over two meetings, the Issue Group carried out a smart risk evaluation, as documented in Attachment A.

Risk Areas and Risk Ratings

Issue Group considered the following ten risk areas, and assigned a risk rating to them:

1. Readiness
2. Installation
3. Inter-operability
4. Legacy
5. Metering
6. Communication
7. DCC user interface
8. Supplier – agent interfaces
9. Meter operations
10. Data processing

The risk areas five to ten above relate to the end-to-end data retrieval process.

The risk areas are outlined in Section 2 of Attachment A, and the method of assigning the risk rating is described in Section 5.

Interim Smart Risk Register

The interim risk register is outlined in Section 6 of Attachment A. We expect that the review of the REM will result in a simpler Risk Evaluation Register (RER), with which industry parties can more readily engage. Pending this review the smart risk register has been developed as an interim product in order to identify short term mitigations against Settlement Risk.

Proposed Mitigations

The proposed mitigations are outlined below.

Proposed Mitigations		
Mitigation	Risk Area(s)	Settlement Risk Rating
ELEXON to assess the feasibility of monitoring the sending of 'Smart Meter Configuration' (D0367) flows. Options would include using ELEXON's database of Data Transfer Network (DTN) flows, the BSC Audit or Technical Assurance of Performance Assurance Parties (TAPAP) checks.	Supplier-agent interface	High
	Meter Operations	Medium

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Proposed Mitigations		
Mitigation	Risk Area(s)	Settlement Risk Rating
ELEXON to assess the feasibility assuring the correct translation of DCC commands messages from Extensible Markup Language (XML) into D0367 and 'Meter Readings' (D0010) data flows. This will include exploring the potential for sample-based desk top audits (e.g. as part of a TAPAP check) or a more automated approach in order to allow wider scale monitoring.	Supplier-agent interface	High
	Meter Operations	Medium
ELEXON to hold a process walkthrough and educational session on Modification P302 'Improve the Change of Supplier Meter read and Settlement process for smart Meters' . Although Modification P302 was implemented in June 2016, the revised processes have not been used because of delays to the smart roll-out.	Inter-operability	Medium
ELEXON to use 'Metering System AA/EAC' (D0019) and 'Non Half-hourly Meter Technical Details' (D0150) data flows in its DTN flow database to carry out a comparative performance analysis for legacy and smart Meters. This will be used to assess whether it would be beneficial to differentiate between legacy and smart Meters on a more formal basis e.g. raise a Modification to introduce new performance Serials.	Legacy	Medium
	Data Processing	Medium
ELEXON to review NHHDC and Supplier validation requirements (in the longer term, once the roll-out has gained momentum and sufficient data is available).	Data Processing	Medium
ELEXON to provide guidance on addressing data quality exceptions on legacy Meters that are identified as a result of installing smart Meters.	Legacy	Medium
ELEXON to use its database of DTN flows to report Metering Systems which are still allocated to a Radio Tele-switch (RTS) SSC after a smart Meter has been installed. This will not be viable until the later stages of the smart roll-out when Auxiliary Load Control Switches are available, tested and in use.	Installation	Medium

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3 Conclusions

Recommendations

The Issue Group agreed that an interim report showing the smart risk register be presented to the PAB and tabled at the BSC Panel meeting.

Next steps

The remaining work streams will to be considered under Issue 69:

- REM and other PAF procedures;
- Data Provision; and
- Performance Assurance Techniques.

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Appendix 1: Issue Group Membership

Issue Group membership and attendance

Issue 69 Group attendance for work stream 1: smart Metering			
Name	Organisation	25 Apr 17	24 May 17
Douglas Alexander	ELEXON (<i>Chair</i>)	✓	✓
Jemma Williams	ELEXON (<i>Lead Analyst</i>)	✓	✓
Jon Spence	ELEXON (<i>Design Authority Assurer</i>)	✓	✓
Nick Groves	ELEXON (<i>Design Authority Solution Owner</i>)	✓	✓
Max O'Connor	ELEXON	✓	✗
Rob Johnston	Smartest Energy	✓	✗
Helen Knowles	Smartest Energy	✗	✓
Jonathan Moore	Engie	✓	✓
Colin Frier	Siemens	✗	☎
Antony Hobbs	Siemens	✗	✗
Anna Marzec	Opus Energy	✓	✓
Nik Wills	Stark	✓	✗
James Murphy	Stark	✓	✓
Claire Henderson	TMA Data Management	✓	✓
Alex Leyland	British Gas	✗	✓
Terry Carr	E.ON Energy Solutions	✓	✓
Richard Dakin	E.ON Energy Solutions	✓	✓
Richard Humphreys	Total Gas & Power	✗	✗
Paul Saker	EDF	✓	✓
Hannah Hutchins	EDF	✓	✓
Keren Kelly	npower	✓	✓
Seth Chapman	G4S	✓	✓
Stephen Johnson	IMServ	✓	✗
Jonathan Dixon	Ofgem	✓	✗
Tricia Quinn	Ofgem	✗	✗
Jill Ashby	Gemserv	✓	✓
Mayokun Alonge	National Grid	✓	✓

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Appendix 2: Glossary & References

Acronyms

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

Acronyms	
Acronym	Definition
AA	Annualised Advance
BSC	Balancing and Settlement Code
EAC	Estimated Annual Consumption
PAB	Performance Assurance Board
PAF	Performance Assurance Framework
REM	Risk Evaluation Methodology
RER	Risk Evaluation Register
SMETS1	Smart Metering Equipment Technical Specifications (version 1)
SWP	Strategic Work Plan
TAPAP	Technical Assurance of Performance Assurance Parties
XML	Extensible Markup Language

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
D0010	Meter Readings
D0019	Metering System EAC/AA Data
D0367	Smart Meter Configuration Details

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
	P207 page on the ELEXON website	https://www.elaxon.co.uk/mod-proposal/p207-introduction-of-a-new-governance-regime-to-allow-a-risk-based-performance-assurance-framework-paf-to-be-utilised-and-reinforce-the-effectiveness-of-the-current-paf/

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External Links		
Page(s)	Description	URL
	Issue 69 page on the ELEXON website	https://www.elexon.co.uk/smg-issue/issue-69/
	BSC Panel 264 page on the ELEXON website	https://www.elexon.co.uk/meeting/bsc-panel-263
	P272 page on the ELEXON website	https://www.elexon.co.uk/mod-proposal/p272-mandatory-half-hourly-settlement-for-profile-classes-5-8/
	P302 page on the ELEXON website	https://www.elexon.co.uk/mod-proposal/p302/

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