

Risk Analytics & Monitoring Dashboards – Risks 003 and 007

Performance Assurance Board

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Classification	Public	Document version	V1.0
Summary	This paper outlines the Risk Analytics and Monitoring Dashboards (RAMD) we have produced for Risks 003 and 007.		

1. Risk analytics & monitoring dashboards

- 1.1 As per the delivery schedule provided within [PAB237/10](#) our first deliverable includes dashboards for Risks 003 and 007 and are being presented to the PAB at its November 2020 meeting.

Risk ID	Category	Sub-Category	The risk that...	Forecast Impact 2020/21
003	Metering	Metering Equipment installation, programming, maintenance and Commissioning	SVA Metering Equipment is installed, programmed or maintained incorrectly including where Commissioning is performed incorrectly or not at all.	£52.2m
007	Data retrieval & processing	Retrieval of metered data	SVA metered data is not retrieved, such that the proportion of estimated data being used in Settlement contributes to performance standards not being met	£11.9m

- 1.2 Dashboards will support risk monitoring and help to steer performance assurance activity. We intend to keep the dashboards under regular review in order to ensure our monitoring regime is flexible and responsive to changing market conditions.
- 1.3 Technical details along with known limitations in respect of the specific data sources used are included within the appendix.

2. Limitations of DTN data & associated restrictions of RAMD use

- 2.1 In respect of RAMD relating to SVA risks one of our primary data sources are extracts from the Data Transfer Network (DTN). Unfortunately, the lack of total market coverage for DTN data (specifically in respect of vertically integrated Suppliers) limits our use of this data. We do currently utilise the BSC Audit, Technical Assurance Agent (TAA) Audits, Technical Assurance of Performance Assurance Parties (TAPAP) audits as well as other data sources to mitigate against the limitations of DTN data. As work on the RAMD progresses we intend to ensure that equivalent assurance data from vertically integrated parties is obtained on an ad hoc basis through the Material Error Monitoring (MEM) as noted within [PAB235A/02](#). We will also continue to explore alternative data sources which might mitigate against some of these limitations.
- 2.2 Our long term ambition is to expand the coverage of data available to us to cover the whole market, thereby ensuring RAMD are appropriate for use in respect of public peer comparison and in driving performance

assurance determinations. We also intend to expand upon the scope of the dashboards and share them directly with BSC Parties so that they can benefit from analytics relating to their own performance and levels of risk. We plan to progress this ambition as early as is practicable however it is likely that any such work will require long lead times.

- 2.3 Whilst we identified opportunities to address the issues with current data provision (as detailed within PAF Review Data Provision recommendations, approved by the PAB through paper [PAB235A/02](#)), we have concluded that it is not the right time to invest industry time and effort to make changes to the reporting framework. This is due to the significant volume of change on the horizon primarily related with Market-wide Half Hourly Settlement (MHHS) and the Retail Energy Code (REC) which are expected to impact key BSC areas. We do not believe there is a case to progress changes to industry processes for transmitting data at this time due to the significant updates that would be required in the coming years due to MHHS and the REC. In addition, the architecture of the target operating model for MHHS presents the opportunity to deliver some of the improvements identified through the PAF review data work stream with access to more regular and granular data. Therefore, we plan to continue work with respect to assurance data in order that assurance reporting requirements can be implemented as we migrate to the new market design which is anticipated in 2024/25.

Note regarding Risk 007 RAMD

- 2.4 These limitations, described in 2.1 to 2.3, do not apply to all aspects of the Risk 007 RAMD as the primary data source for these dashboards are our quarterly Supplier Meter Registration Service (SMRS) snapshots.

Note regarding CVA risks

- 2.5 These limitations are not replicated in respect of CVA risks as the data used for CVA RAMDs will primarily be procured through BSC Agents and will cover the full market.

Note regarding BSC Party data validation

- 2.6 At the time of writing we are still in the process of validating the accuracy of our data with the two BSC Parties who volunteered to help with the validation. While we did share our planned timeline with both parties we haven't pushed them to meet this timeline as we appreciate that our customers are under significant pressure in the current climate and we greatly appreciate their supporting our efforts to validate the accuracy of our dashboards.

3. Recommendations

- 3.1 We invite the PAB to:
- a) **COMMENT** on the scope and functionality of the Risk Analytics and Monitoring Dashboards presented within the confidential attachments; and
 - b) **NOTE** the limitations inherent in the data and that these dashboards will be included within the monthly Risk Report presented to the PAB and will be used internally by Elexon for the purposes of risk management.

Appendices

Appendix 1 – RAMD technical details and limitations

Attachments

Attachment A – CONFIDENTIAL Risk 003 Dashboards

Attachment B – CONFIDENTIAL Risk 007 Dashboards

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Risk 003

Description

This dashboard provides insight on whether the severity of a Settlement Risk is increasing from one month to another. The summary page provides the aggregated data in relation to each risk factor at an industry level. This is complemented by individual pages for each specific risk factor, which breaks down the data by different market segments (e.g. HH, NHH) and individual party and role level.

Data Sources

- D0215 (Provision of Site Technical Details)
- D0268 (Half Hourly Meter Technical Details)
- D0384 (Notification of Commissioning Status)
- Supplier Meter Registration Service

Limitation

This report is based on industry data flows sent over the Data Transfer Network (DTN). It provides insight into market performance but not a complete view as noted above. Therefore this report should not be used as the only source of information for decision making in performance assurance determinations.

Report Explanations

RF 3.1 & 3.2: Mismatches identified between D0268 and D0215 CT and VT Ratios

- Elxon has combined the most recent HH Meter Technical Details against the corresponding Provision of Site Technical Details to assess CT and VT Ratio mismatches between the two data flows
- The data flows assessed are: Provision of Site Technical Details (D0215) and Half-Hourly Meter Technical Details (D0268)

RF 3.1 & 3.2: D0268 update lacking a corresponding D0215 from LDSO

- Elxon has combined the most recent HH Meter Technical Details against the corresponding Provision of Site Technical Details to assess HH Meter Technical Details where there has not been a corresponding Provision of Site Technical Details
- The data flows assessed are: Provision of Site Technical Details (D0215) and Half-Hourly Meter Technical Details (D0268)

RF 3.4: MOAs did not complete commissioning of Metering Equipment

- Elxon has assessed the most recent Notification of Commissioning Status data flows sent which contains details of the Status of Commissioning sent by the MOA
- The data flow Assessed is: Notification of Commissioning Status (D0384)

RF 3.4: LDSOs did not complete commissioning of Measurement Transformers

- Elxon has assessed the most recent Notification of Commissioning Status data flows sent which contains details of the Status of Commissioning sent by the LDSO
- The data flow Assessed is: Notification of Commissioning Status (D0384)

Risk 007

Description

This dashboard provides insight on whether the severity of a Settlement Risk is increasing from one month to another. The summary page provides the aggregated data in relation to each risk factor at an industry level. This is complemented by individual pages for each specific risk factor, which breaks down the data by different market segments (e.g. HH, NHH) and individual party level (e.g. Supplier, MOA, LDSO).

Data Sources

- D0001 (Request Metering System Investigation)
- D0002 (Fault Resolution Report or Request for Decision on Further Action)
- D0004 (Notification of Failure to Obtain Reading)
- D0010 (Meter Readings)
- D0058 (Notification of Termination of Supply Registration)

- D0086 (Notification of Change of Supplier Readings)
- D0139 (Confirmation or Rejection of Energisation Status Change)
- D0150 (Non Half-hourly Meter Technical Details)
- D0221 (Notification of Failure to Install or Energise Metering System)
- D0268 (Half Hourly Meter Technical Details)
- D0313 (Auxiliary Meter Technical Details)
- Supplier Meter Registration Service
- Market Indicator Data

Limitation

This report is based on industry data flows sent over the Data Transfer Network (DTN). It provides insight into market performance but not a complete view as noted above. Therefore this report should not be used as the only source of information for decision making in Performance Assurance Determinations.

Report Explanations

RF 7.1: Failure to Access the Meter

- Elxon has combined Site Visit data flows and assessed the number of Site Visits which resulted in a Failure to access the Meter, as well as the reason for the failure (Excl. Site Visits not attempted).
- The data flows assessed are: Request for Metering System Investigation (D0001), Fault Resolution Report (D0002), Notification of Failure to Obtain Reading (D0004), Meter Readings* (D0010) sent to the LDSO, Confirmation or Rejections of Energisation Status Change (D0139), and Notification of Failure to Install or Energise a Metering System (D0221)
- * Only Routine, Initial, Final, and Special Reads

RF 7.2: Failure to complete Site Visit due to insufficient information available

- Elxon has combined Site Visit data flows and assessed the number of Site Visits that could not be conducted due to insufficient information being available (Excl. Site Visits not attempted).
- The data flows assessed are: As per RF 7.1 plus NHH MTDs for remote communication Meters (D0150), and Auxiliary MTDs (D0313).
- * Only Routine, Initial, Final, and Special Reads

RF 7.3: Failure of Remote Reading Systems on Site Visits

- Elxon has combined Site Visit data flows and assessed the number of Site Visits where there was a Failure of remote reading systems, as well as the reason for the failure (Excl. Site Visits not attempted).
- The data flows assessed are as per RF 7.1
- * Only Routine, Initial, Final, and Special Reads

RF 7.4: Readings not obtained as prescribed by the BSC on Change of Supplier and Meter Exchange Events

- Elxon has reviewed the latest data flows sent during successful Change of Supplier and Meter Exchange events to assess the events where Meter Readings are not submitted.
- The data flows assessed are: Notification of Termination of Supply Registration (D0058), Instructions to NHH DA (D0209), Notification of Change of Supply Readings (D0086), Termination of Appointment by Supplier (D0151), Notification of Objection to CoS (D0067), HH MTDs (D0268), NHH MTDs (D0150), Validated Meter Readings (D0010).