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Action:	**For Decision**

SEC Panel Risk and Issue Register Update

1. Purpose

This paper provides the monthly update on the SEC Panel Risk Register. It explains any proposed new risks and changes to existing risks. It also sets out any updates to the Panel Issues Register and outlines further details on the actions being taken to resolve or mitigate the issues.

The SEC Panel Risk and Issue Registers are provided as Appendix A and B respectively.

2. SEC Panel Risk Update

2.1 Updates to existing risks

SEC Panel Risk 15

The DCC and SSC have agreed a further re-wording of its security risk associated with the DCC's proposals for SMETS1 Enrolment and Adoption. This is to make it clearer that the security proposals for Initial Operating Capability (IOC) are reasonably stable, but that the plans and design for Middle Operating Capability (MOC) and Final Operating Capability (FOC) are not yet complete or stable. In addition, the risk's mitigations are amended to reflect that ongoing and planned actions are in place.

This risk was escalated and agreed by the SEC Panel previously as SEC Panel Risk 15. The proposed amendments to the risk, including its risk description and mitigations are set out in red in Appendix A.

3. SEC Panel Risk Matrix

The matrix below (Figure 1) shows the latest status of Panel risks.

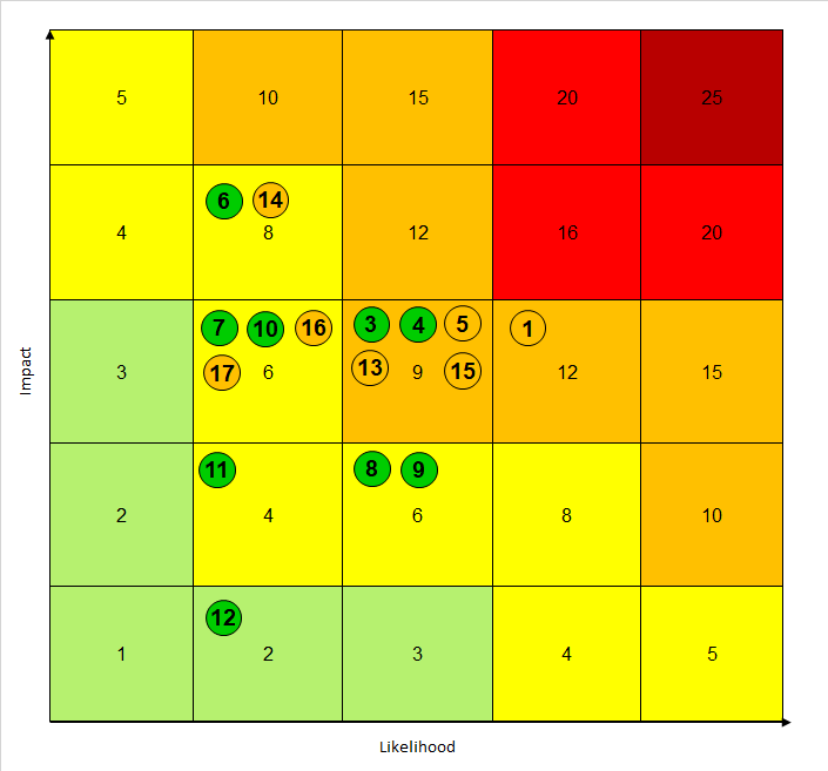

Figure 1: SEC Panel Risks Matrix

4. SEC Panel Issue Update

4.1 Existing Issue 2

Issue 2 relates to Users finding workarounds to circumvent the DCC systems because change to those systems is too complicated and/or costly. It was raised by the Technical Architecture and Business Architecture Sub-Committee (TABASC) and added to the Panel Risk Register in June 2018. At its August 2018 meeting, the Panel agreed to revisited and discuss the issue at the September 2018 Panel meeting as issues surrounding the implementation of Releases have become clearer.

5. Recommendations

The SEC Panel is requested to:

- **CONSIDER** the approach to further assess the SEC Panel Issue 2; and
- **AGREE** the amendments to the SEC Panel Risk Register.

Kayla Reinhart

SECAS Team

7th September 2018

Appendix A - SEC Panel Risks

The following table lists the SEC Panel risks, reflecting any updates made as part of the monthly review. The risks have been ordered from highest to lowest Severity. Any mitigations or actions activities in *italics* are those that are ongoing or require completion. Any mitigations or actions activities in red are those that are new.

#	There is a risk that…	Impact (1-5)	Likelihood (1-5)	Severity	Mitigation (*Planned and/or ongoing actions in italics)*	RAG Status
1	The DCC are unable to deliver all the changes that make up the content of a Release, leading to potential descoping of content or delays to Release timescales.	3	4	**12**	• SEC Panel and the DCC have developed a Release Management Document to cover the overarching approach to managing releases, which was issued for consultation on 15th November 2017. • *DCC to regularly update the Panel on progression of the release implementation.*	**AMBER**
3	Confidential information is leaked due to inadequate security controls leading to reputational damage and potential legal challenge.	3	3	**9**	• The Panel Information Policy is in place to control access to confidential information in accordance with the SEC. • Terms of Reference (ToR) for each Sub-Committee require all members to sign a confidentiality and non-disclosure agreement. • Internal SECAS processes for handling of confidential data, including the use of Egress to store and distribute data.	**GREEN**
4	Testing may be insufficient for a stable environment leading to defects.	3	3	**9**	• The Testing Advisory Group (TAG) analyse and review outcomes and reports through the weekly testing updates and calls. • DCC Live Service Criteria Report to BEIS in place. • Defect Resolution Process and Issue Resolution Processing in place in relation to Modifications. • Obligations in place under User E2E testing.	**GREEN**

#	There is a risk that…	Impact (1-5)	Likelihood (1-5)	Severity	Mitigation (*Planned and/or ongoing actions in italics)*	RAG Status
5	Release Management is inefficient due to the dual input by BEIS and the SEC Panel in relation to Release content and implementation.	3	3	**9**	• Initiated early handover of Technical Specifications to align Modifications in Releases. • *Development of the enduring Release Management documentations (ongoing).* • *SECAS continue to attend the Implementation Managers Forum (IMF) and Technical and Business Design Group (TBDG) for BEIS updates on Release Management planning.*	**AMBER**
13	Wider industry initiatives that have impacts on the smart metering arrangements take into account the current requirements (e.g. the switch to half-hourly settlement and the faster switching programme and changes to Feed in Tariffs).	3	3	**9**	• *Establish regular reporting and information exchange between the Faster Switching teams to ensure impacts are captured and considered.* • *Sub-Committees (such as the TABASC and the Ops Group) to highlight any industry wide projects that may require SEC input.* • *Updates to be provided to the Panel or (relevant Sub-Committee) on new industry initiatives to be requested from leading body* • *Assumptions made by the leading body are checked and challenged (if required) by the Panel or relevant Sub-Committee.*	**AMBER**
15	The Security Sub-Committee (SSC) has identified a risk that, ~~the DCC SMETS1 E&A design is insufficiently detailed and unstable,~~ whilst the Security Architecture for the Initial Operating Capability (IOC) is baselined, there are changes under consideration that will need to be assessed for security considerations under Change Control by the SSC.	3	3	**9**	~~• SSC SMETS1 workshops (on 12th September 2017, 19th December 2017, and 1st May 2018) have taken place where the DCC presented its SMETS1 Risk Assessment and an updated SMETS1 Security Architecture document.~~ ~~• An additional SSC SMETS1 meeting of core SSC Members was held on 10th January 2018.~~	**AMBER**

#	There is a risk that…	Impact (1-5)	Likelihood (1-5)	Severity	Mitigation (*Planned and/or ongoing actions in italics)*	RAG Status
	Further, the DCC has not yet completed a sufficiently detailed or stable SMETS1 E&A design for Middle (MOC) and Final Operating Capability (FOC), which may lead to: • Potential delay and cost increases to enrolment and adoption caused by the need to implement additional security controls or rework; • Impact on time and cost to change the security solution design, later in the design, build and test cycle; • Reputational risk to smart metering (including SMETS2) from negative publicity as a result of security vulnerability or incident; • A security compromise could lead to an adverse operational impact on SMETS1 operations. • The SSC advising security controls that have not been included in the current DCC design of SMETS1 E&A for IOC, MOC and FOC; • DCC having to amend both its designs and contractual arrangements with its service providers at increased financial cost to DCC and its Users; and				~~• DCC provided an updated Security Architecture Document on 25th April 2018 and addressed previous SSC feedback provided, to enable SSC input on whether the:~~ ~~○ security controls are sufficient and / or feasible; and~~ ~~○ that wider impacts of controls have been considered (e.g. on performance, consumers, Users and cost etc).~~ *• Regular SMETS1 agenda item at each SSC meeting to ensure that the security controls are being considered at each step and are both sufficient and feasible.* *• The SSC advice being provided on emerging DCC design.*	

#	There is a risk that…	Impact (1-5)	Likelihood (1-5)	Severity	Mitigation (*Planned and/or ongoing actions in italics)*	RAG Status
	• The SMETS1 E&A solution lacking sufficient security controls to avoid a security compromise.					
14	Insufficient Communications Hub firmware regression testing to be undertaken during Release testing, resulting in deployed devices and/or Communications Hubs in storage not working once a release goes live.	4	2	**8**	• *DCC undertakes appropriate levels of Communication Hub regression testing to provide assurance that devices continue to work once a release goes live.* • *Evidence of the regression testing is provided and reviewed by the TAG and Panel.* • Panel highlights Communications Hub regression testing concerns to BEIS, as part of its considerations of Release 2.0 SIT (System Integration Testing) Approach Documentation. • DCC provides extra details on the extent of regression testing within the Release 2.0 SIT Approach Documentation.	**AMBER**
6	Incorrect implementation of process or tooling defects lead to errors being introduced into the draft Technical Specifications and Great Britain Companion Specification (GBCS).	4	2	**8**	• A Quality Assurance process is in place. • SECAS has a defined process including resourcing. • SECAS has a community of technical experts for content reviews.	**GREEN**
7	The expert support structure established by the Technical Architecture and Business Architecture Sub-Committee (TABASC) is not adequate for supporting them in its duties, due to knowledge gaps or there not being availability within industry.	3	2	**6**	• The Technical and Business Expert Community (TBEC) is established. • Agreed approach for expert resource to be managed on a work package level. • Directly seek out technical experts if required by future work packages.	**GREEN**

#	There is a risk that…	Impact (1-5)	Likelihood (1-5)	Severity	Mitigation (*Planned and/or ongoing actions in italics)*	RAG Status
8	The Panel guidance and timescales cannot support DCC Users in meeting their licence obligations in relation to User Mandates.	2	3	**6**	• Completed updates to the User Entry Process guidance on SEC Website. • Provide Party Support by communicating with all Small Suppliers. • Joint DCC engagement with DCC Users, to ensure alignment. • The SEC Panel have delegated the responsibility of setting the assurance statuses to the SSC, which therefore, supports quicker timescales for the assessment process.	**GREEN**
9	A Modification Proposal is progressed that has a negative impact on the End-to-End Technical Architecture.	2	3	**6**	• The *TABASC to feed into Modifications Process with any feedback and impact assessment required (ongoing).* • The TABASC are provided with a monthly Modification development update. • TBEC established for the TABASC to call on if required to provide expert input into the Modifications Process.	**GREEN**
10	SEC Panel Budget is insufficient due to unexpected resource needs (e.g. high volume of Modification Proposals or additional unexpected Panel responsibilities taking effect).	3	2	**6**	• Updated Jointed Implementation Plan (JIP) reviewed to identify any impacts to SEC Panel. • SEC Panel Budget reflects DCC re-plan outcomes. • SEC Panel Budget for Regulatory Year 2017-2018 approved and finalised. • SEC Panel Budget for Regulatory Year 2018-2021 was approved by the Panel in February 2018 and following the 15 Working Day appeal window has been set as the Approved Budget commencing on the 1st April 2018.	**GREEN**

#	There is a risk that…	Impact (1-5)	Likelihood (1-5)	Severity	Mitigation (*Planned and/or ongoing actions in italics)*	RAG Status
16	Insufficient SECAS and/or User CIO resource capacity results in the delay to User entry activities, resulting in delay to User Go Live and/or DCC Mandates.	3	2	**6**	• SECAS undertake thorough resource planning in conjunction with the User CIO. This includes fortnightly catch ups to discuss recent assessment bookings. The SEC website also contains an online booking form which provides adequate slots for people to book in advance of the mandates. • The User CIO have the ability to upscale their team resources if needed. • SECAS undertaking review of workload and responsibilities to enable thorough resource planning and to expand its resource capacity.	**AMBER**
17	The User CIO is unable to deliver User CIO assessments due to conflicts of interest and/or the alternative User CIO is not appropriately geared up (e.g. subject matter knowledge) to provide a thorough and consistent evaluation given the potential numbers of assessments involved.	3	2	**6**	• Mechanism in place with User CIO to promptly identify any conflicts of interest to enable the deployment of the alternative/reserve User CIO. • In these occasions, the SEC Panel has the ability to procure an alternative User CIO. Processes such as shadowing the current User CIO are in place to ensure that they are appropriately geared up for assessments.	**AMBER**
11	Inability to fulfil SEC activities across all SEC Panel Sub-Committees due to unclear requirements or timings.	2	2	**4**	• Duties set out and monitored monthly by each Sub-Committees' Activity Planners. • Utilise available resources such as the TBEC and SECAS technical experts. • The SSC utilise security experts.	**GREEN**

#	There is a risk that…	Impact (1-5)	Likelihood (1-5)	Severity	Mitigation (*Planned and/or ongoing actions in italics)*	RAG Status
					• The TABASC utilise work packages to determine a development approach and estimated resource required for each new piece of work. • The SMKI PMA utilise specialists available. • Seek Panel's advice if duties are unclear in the Terms of Reference.	
12	There is insufficient interaction between the SEC Panel and Alt HAN Forum to enable alignment of SEC Objectives.	1	2	**2**	• Establish regular reporting and information exchange between the SEC Panel and Alt HAN Forum Chairs. • Alt HAN Forum provided input to the SEC End of Regulatory Year Report.	**GREEN**

Table 2: SEC Panel Risks

Appendix B - SEC Panel Issue Register

The following table lists the SEC Panel issues, reflecting any new or updated issues made as part of the monthly review. Any mitigations or actions activities in *italics* are those that are ongoing, or require completion. Any mitigations or actions activities in **red** are those that are new.

Issue No.	Date Raised	Issue Category	Associated Risk No.	There is an Issue that…	The Impacts of the Issues are...	Impact (1-5)	Mitigation and Actions Required (*Planned actions in italics)*	RAG Status
1	14th July 2017	Modification Process	2[1]	The progression of Modification Proposals are not meeting required timescales due to the delayed completion of activities (e.g. submission of Impact Assessments and any requested information within reasonable timescales from the DCC) leading to reputational damage and challenge.	That industry driven Modification Proposals are not being progressed in a timely manner resulting in: • diminished case for the change, as the benefits against the SEC Objectives are potentially reduced; • frustration with the SEC Modification Process; and/or • frustration that Industry driven change is not a priority compared with other changes.	3	• Panel is monitoring progression against agreed timescales through monthly Modification updates and is reviewing changes when necessary. • Panel has requested commitment and confirmation from the DCC that timescales (including revised timescales) for the completion of Preliminary Assessments and Impact Assessments will be achieved and will not slip (further). • *SECMP0034 'Changes to the SEC Section D for DCC analysis provisions', which is currently with the Authority for final decision, seeks to recognise within the SEC the DCC's Preliminary Assessment (PA) and Impact Assessment (IA) processes to ensure there are clear delivery timescales and methods for setting such timescales.* • Plan resourcing, manage expectations and extent of involvement to deliver	RED

[1] The progression of Modifications Proposals does not meet required timescales due to the delayed completion of activities (e.g. submission of Impact Assessments and any requested information within reasonable timescales) leading to reputational damage and challenge by SEC Parties and/or Ofgem.

Issue No.	Date Raised	Issue Category	Associated Risk No.	There is an Issue that…	The Impacts of the Issues are...	Impact (1-5)	Mitigation and Actions Required (*Planned actions in italics)*	RAG Status
							obligations are reviewed and reflected in the SEC Panel Budget. • DCC to confirm that the timescales they indicate for the provisions. • SECAS is carrying out a review of the SEC Section D provisions and the end-to-end modifications process to implement a more efficient and robust assessment process. • SECAS is proactively seeking industry engagement in the various modification Working Groups to ensure meetings are quorate and do not need to be rescheduled.	
2	15th June 2018	Modification Process - DCC Systems	TABASC 10	DCC System is circumvented as making changes to it is too complicated	• This risk concerns the circumstance where Modification Proposals that will provide a benefit from the perspective of process improvement and/or efficiency, however the (DCC System) costs or implementation timescales are high, resulting in	3	• SECAS is carrying out a review of the SEC Section D provisions and the end-to-end Modifications Process to implement a more efficient and robust assessment process. • Clear requirements needed to enable an accurate assessment of (DCC solution) cost impacts to be calculated. • Monitor the costs associated with implementing (DCC System impacting) Modification Proposal solutions • DCC to request the Working Group to clarify requirements (in a timely manner and prior to the submission of	RED

Issue No.	Date Raised	Issue Category	Associated Risk No.	There is an Issue that…	The Impacts of the Issues are...	Impact (1-5)	Mitigation and Actions Required (*Planned actions in italics)*	RAG Status
					the change not going ahead for cost and/or timescale reasons alone.		PA/IA requests) to enable an accurate assessment to be undertaken.	

Table 3: SEC Panel Issue Register

Appendix C - SEC Panel Risk and Issue Impact Classification

Category	Negligible (1)	Minor (2)	Moderate (3)	Serious (4)	Major (5)
Safety	Minor or no medical treatment required, no lost time.	Medical treatment, less than 3 days' impact.	Reportable injury with impact greater than 3 days.	Major long term but reversible injury.	Single fatality or serious irreversible disability with major quality of life impact.
Environment	Contained environmental release with no adverse effects.	Short term, minor environmental impact confined to site.	Moderate short-term impact on biological or physical environment.	Environmental impact causing serious but reversible environmental impact on biological or physical environment.	Major environmental impact causing long-term or irreversible change in localised biological or physical environment with loss of habitat/species.
Reputation	Isolated complaint or comment with no anticipated coverage.	Limited local public and media concern with 'short lived' local coverage.	Extensive regional public and media concern with potential to escalate to national coverage.	Sustained regional public and media concern with limited national coverage impacting business in UK.	Sustained public and media criticism impacting smart metering or business in UK.
Client & Customer	Limited short-term impact on client base and satisfaction.	Short-term impact on client base and satisfaction.	Significant short-term impact on client base and satisfaction.	Significant impact on client base and satisfaction requiring some change to company strategy.	Significant long-term impact on client base and satisfaction requiring significant change to company strategy.
Asset	Minimal asset damage, affecting operations for less than 48 hours.	Minor asset damage which impacts operations for < 30 days.	Moderate asset damage which impacts operations for between 30 days and six months.	Serious asset damage which impacts operations for more than 6 months.	Total loss of single asset (or group of interdependent assets).

Category	Negligible (1)	Minor (2)	Moderate (3)	Serious (4)	Major (5)
Legal & Regulatory	Breach of internal controls, limited impact.	Low level legal issue, quickly resolved. Breach of internal control.	Moderate legal issue, non-compliance or breach of regulation, increased scrutiny by authorities. Multiple breach of internal controls.	Significant breach, or latest in a series of breaches, involving investigation or report to authorities with prosecution or moderate fine possible.	Major legal/regulatory breach resulting in litigation, regulatory sanction and/or significant fine.
Financial Impact	One off revenue impact < £50k. Recurring, annual revenue impact < £10k.	One off revenue impact: £50k to £250k. Recurring, annual revenue impact < £50k.	One off revenue impact: £250k to £500k. Recurring, annual revenue impact < £100k.	One off revenue impact: £500k - £1m. Recurring, annual revenue impact < £250k.	One off revenue impact > £1m. Recurring, annual revenue impact > £250k.
People	Minimal staff loss or shortfalls in recruitment. Key Staff / Team not available for a week.	<10% loss or recruitment of a team. Key Staff / Team not available for up to one month.	Between 10% - 50% loss or recruitment of a team. Key Staff /Team not available for between one to three months.	>50% loss or recruitment of a team. Key Staff / Team not available for between three to six months.	100% loss of or unable to recruit a team. Key Staff / Team not available for more than six months.
Security	Temporary closure (less than a day) or reduced operation of a Site or Asset.	Temporary closure (more than a day) of a Site or Asset.	Temporary closure (more than a week) of a Site or Asset.	Long term (more than a month) closure of a Site or Asset.	
Strategic	Impacts short-term tactical objectives.	Strategic objectives are delayed or require additional resource to deliver.	A strategic objective is not delivered or a key strategic assumption is overturned.	Multiple strategic objectives are not delivered or multiple key strategic assumptions are overturned.	Incident response prevents strategic roles being delivered, or demands complete change of strategy.