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SECMP0002 ‘Add New Command to Reset Debt Registers’

4th April 2016

Meeting 1 Minutes

Attendees:

Working Group 1 Members	Organisation
Mark Pitchford (SECMP0002 and SECMP0007 Proposer)	Npower
Alan Creighton (SECMP0003 Proposer Representative)	Northern Powergrid
Sam Charlton (SECMP0005 Proposer Representative)	EON
Emslie Law (SECMP0006 Proposer)	SSE
Chris Spence	EDF Energy
Gavin Brown (part)	Chameleon Technology (teleconference)
Louise Porter (part)	Utilita Energy (teleconference)
Tim Boyle	Chameleon Technology

Representing	Other attendees
DECC	Relve Spread
DCC	Stuart Scott
	Adam Pearce (part)
SECAS	Jill Ashby (Chair)
	Kevin Atkin (Technical Support)
	Ian Swanson (Technical Support)
	David Barber (Modifications Lead)
	Sebastian Rattansen (Meeting Secretary)
	Sasha Townsend (Modifications Analyst (part))
	Keith Phakoe (Modifications Analyst (part))

Apologies:

Working Group 1 Members	Organisation
Graham Smith (SECMP0003 Proposer)	Western Power Distribution
Tim Newton (SECMP0005 Proposer)	EON

1. SECMP0002 – Add New Command to Reset Debt Registers

1.1 Overview

The Proposer presented a brief overview of the Modification Proposal. It was clarified that the new SR would be additional to the existing mechanism. The User Roles define who can use the new SR as those ascribed to the existing mechanism. The new SR would apply to Electricity and Gas Smart Metering Equipment (ESME and GSME).

1.2 WG consideration of Modification Proposal

The WG discussed the outline requirements for SECMP0002, as set out below in Table 1:

Refinement	WG View
New SR(s)	Agreed that the proposed SR(s) would be additional to the existing mechanism
DCC requested clarity on the specific functionality required by the User and whether both ZigBee and Device Language Message Specification (DLMS) will support this	Technical advice was that each Debt Register for an ESME and GSME will need to be reset individually, excluding the accumulated Debt Register. Consequently three new Great Britain Companion Specification (GBCS) Use Cases and SR would need to be developed in order to separately reset the two Time Debt Registers (Time 1 and Time 2) and the pay Debt Register. The WG came to the view that the accumulated Debt Register should not be included at this time and could be the subject of a future Mod in light of operational experience.
Should there be differentiation in processing the new SR(s) between meters in pre-payment and credit mode?	A dependency on a meter being in pre-payment mode was not considered to be applicable.
Should reset processing factor in whether there is a change in value? (i.e. SR may make no fundamental change to information on the meter)	The reset value conveyed in the SR should be passed on, including where the current value is the same as that held.
Should the new SR(s) be able to both reset and adjust the debt register?	The new SR(s) should not have dual function and will be separate from the adjustment set. Therefore the associated Use Case will only set out the function of resetting the three debt registers.

Refinement	WG View
	It was assumed that resetting the debt for Gas and Electricity could be in one SR.
The DCC queried whether the new SR(s) would need to be compatible with existing devices (i.e. meters installed before this Mod is implemented)	The new SR(s) would only be prospective and available on new devices that are certified to the updated versions of Smart Metering Equipment Technical Specification (SMETS) and GBCS.
The DCC questioned whether there are any expected firmware update impacts	It will be possible to apply firmware updates to existing meters to enable the additional functionality.
The DCC sought clarification on whether the change will only apply to SMETS2	The intention of this Mod was SMETS2 only (see further information in section 2.3 of these Minutes).
The DCC asked for clarification on the impacts on the Threshold Anomaly Detection Procedure (TADP)	The Mod will need to be factored in to the TADP. Further consideration was made on how the gas command groups compile and how the TADP will treat this traffic in the threshold count. It was highlighted that the gas command groups a number of SRs together and passes figures to the device, rather than requesting the debt registers to be 'Zero'.
The WG questioned the privacy impacts of the Mod, and whether the outbound data would need to be encrypted	The WG noted that the Debt Register data would not be readable if it was encrypted and it was agreed that DECC's privacy experts should be asked about this.
The WG discussed the necessary error codes that would be needed for the new SR(s)	Error codes should be consistent with existing approaches and the SR responses should be at a level of 'Successful' and 'Failed'. The WG agreed that no further information, such as what value is now on the register, would be returned.

Table 1: SECMP0002 outline requirements

1.3 Future Considerations/Impacts

The DCC prompted some discussion around SMETS1 meters. The WG considered that there would be benefit in applying the Modification Proposal to SMETS1 meters, but as the DCC's SMETS1 feasibility study was still underway, the ability to apply the new SR and Use Cases to SMETS1 meters will not be known until the feasibility project is completed.

As the additional SR(s) will be a Critical Command, the WG observed that new payload inspection requirements will need to be set and managed, to be consistent with the planned mechanisms for existing SRs. The WG agreed that the details of the Modification should be raised with the Security Sub-Committee (SSC), specifically in relation to whether 'packet' inspection would be needed.

1.4 Decisions and next steps

The DCC informed the WG that in order to inform their Preliminary Assessment (PA), details of the new GBCS Use Cases would be needed. It was also noted that the drafting may have to be presented to the Technical Sub-Committee (TSC).

Progress on SECMP0002 matters will be brought to the next WG meeting.

ACTION WG1_01_02: SECAS technical support to draft the GBCS changes to support the three new Use Cases.

ACTION WG1_01_03: SECAS to raise security question at the SSC (Packet Inspection).

ACTION WG1_01_04: SECAS to check with DECC privacy experts that the Modification does not give rise to any issues.