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MP244 ‘Device Alerts for Smart Meter Credit Replenishment’

Annex A

Business requirements – version 0.6

About this document

This document contains the business requirements that support the solution(s) for this Modification Proposal. It sets out the requirements along with any assumptions and considerations. The Data Communications Company (DCC) will use this information to provide an assessment of the requirements that help shape the complete solution.

1. Business requirements

This section contains the functional business requirements. Based on these requirements a full solution will be developed.

Business Requirements		
Ref.	Requirement	Responsible for delivery
1	A SMETS2 Device Alert notifying a Supplier of the re-enablement of a Supply following the receipt of various Device Alerts relating to scenarios where credit limits have been exceeded or exhausted.	DCC Meter Manufacturers

2. Considerations and assumptions

This section contains the considerations and assumptions for each business requirement.

2.1 General

The Proposer has identified that no Device Alerts are in place to notify a Supplier (or other relevant DCC User) that a Supply has been re-enabled following a period of power loss caused by either the credit limits being breached, or the exhaustion of credit.

The Proposer would like to implement an Alert to fill the gap, under the name 'Supply Enabled', which would be triggered upon a Supply being re-enabled. The purpose of this Alert is to support the Proposer's organisation monitor any potential Energy Consumers who are 'rationing' their credit, triggering regular Alerts and re-enablement's. The Proposer would look to reach out to those Energy Consumers to then offer the subsequent support.

This solution will be applied to Smart Metering Equipment Technical Specification (SMETS2) Devices, both Electricity Smart Metering Equipment (ESME) and Gas Smart Metering Equipment (GSME).

2.2 Requirement 1: A SMETS2 Device Alert notifying a Supplier of the re-enablement of a Supply following the receipt of three different Device Alerts relating to scenarios where credit limits have been exceeded or exhausted.

The three Device Alerts provided below form the basis of the Proposer requesting the proposed new Device Alert:

1. Credit below Disablement Threshold (prepayment mode) (Alert Code 0x8F0F)
2. Emergency Credit Exhausted (Alert Code 0x81AA)
3. Combined Credit Below Low Credit Threshold (prepayment mode) (Alert Code 0x810D)

A new Device Alert will need to be implemented as part of this change, which will require a change to the Great Britain Companion Specification (GBCS).

The Alert would need to be made configurable, meaning that the DCC Users can choose whether they receive it or not. The DCC has advised that this will require a change to the DUIS Schema.

The Proposer does not require any information to be provided within the Device Alert detailing how the Supply was re-enabled.

As the proposed Device Alert will be Supply critical, the Alert would need to be returned to the Supplier as soon as possible. This may require an amendment to Northbound Prioritisation Alert priority levels.

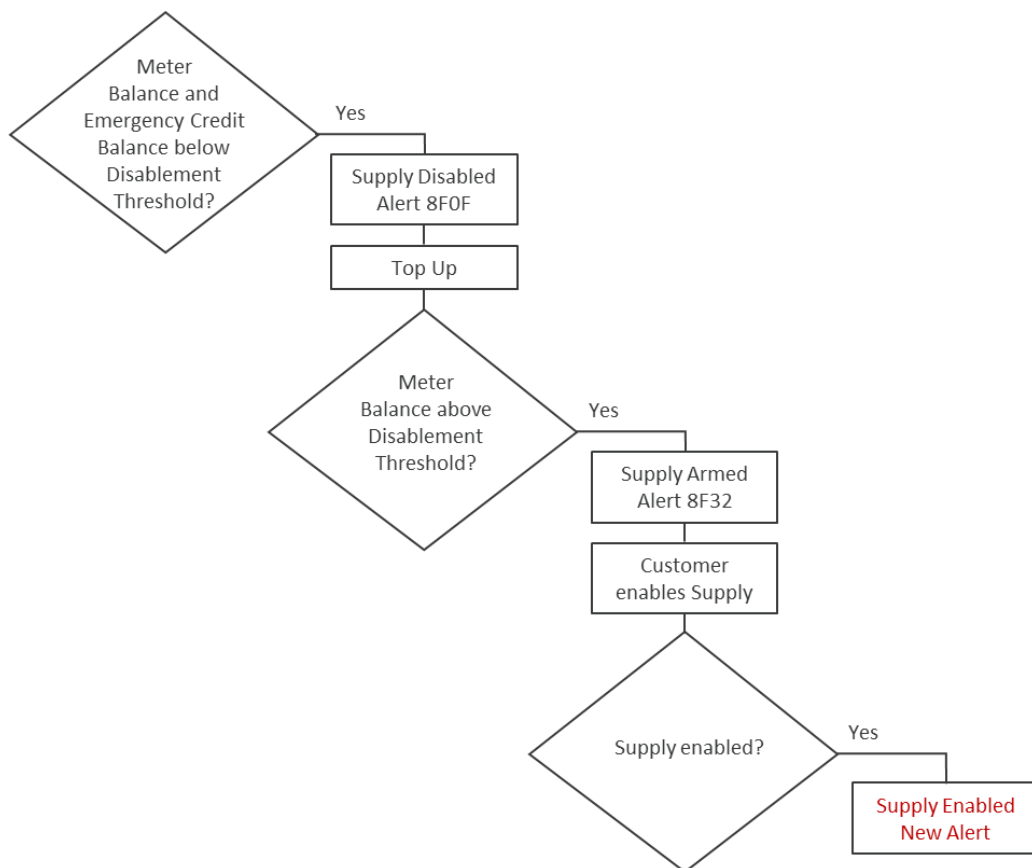


Diagram 1: Proposed Device Alert Illustration

3. Glossary

This table lists all the acronyms used in this document and the full term they are an abbreviation for.

Glossary	
Acronym	Full term
DCC	Data Communications Company
DUIS	DCC User Interface Specification
ESME	Electricity Smart Metering Equipment
GBCS	Great Britain Companion Specification
GSME	Gas Smart Metering Equipment
SR	Service Request
SMETS	Smart Metering Equipment Technical Specification