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# MP102 ‘Power Outage Alerts triggered by an OTA firmware upgrade’

## Business requirements – version 0.1

### About this document

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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 DCC will use this information to provide an assessment of the requirements that help shape the complete solution.

## 1. Business requirements

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

Business Requirements	
Ref.	Requirement
1	Under no circumstances should the Electricity Smart Metering Equipment (ESME) cause a cut or drop in Direct Current (DC) power to the Communications Hub (CH) for three minutes or more during a reboot generating an outage alert.

## 2. Considerations and assumptions

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

### 2.1 Requirement 1: Under no circumstances should the Electricity Smart Metering Equipment (ESME) cause a cut or drop in Direct Current (DC) power to the Communications Hub (CH) for three minutes or more during a reboot generating an outage alert.

ESMEs currently supply power to the CH utilising the Data Communications Company (DCC) Intimate Communications Hub Interface Specification (ICHIS). In the case of a reboot (which for example, may occur after an over the air (OTA) firmware update), the ESME may potentially cut or drop power to the CH for a duration of three minutes or more. Once the duration has reached three minutes a Power Outage Alert (POA) in the form of an AD1 Alert will be sent to the relevant Distribution Network Operator (DNO). This AD1 Alert will not signal a non-genuine Power Outage Event. As DNOs have a responsibility to their customers to investigate the root cause of the Power Outage Event. This can result in a misuse of resources such as dispatching a technician to site.

### 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
CH	Communications Hub
DC	Direct Current
DCC	Data Communications Company
DNO	Distribution Network Operator
ESME	Electricity Smart Metering Equipment
ICHIS	Intimate Communications Hub Interface Specification
POA	Power Outage Alert
OTA	Over the Air