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MP293 – “Enhanced Availability” Solution Annex A Business Requirements – Version 0.4

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	MoSCoW
1	Using the Enhanced Availability service, Users shall be able to send the following on demand SRV and receive appropriate responses: 7.4, Read Supply Status	DCC	M
2	Using the Enhanced Availability service, Users shall be able to receive this alert: AD1, Power Outage Alerts	DCC	M
3	The Enhanced Availability service must be available for SMETS2 and SMETS1 Devices.	DCC	M
4	To use the Enhanced Availability service, there shall be no changes to User-required actions or configurations. Users should not be able to distinguish between the services.	DCC	M
5	The Enhanced Availability system shall be as secure as the corresponding DCC Total System components, and use the same DUIS schema.	DCC	M
6	When a Major incident, planned maintenance, or BCDR impacts the Enhanced Availability service specifically it will not be available.	DCC	M
7	Both the DCC Total System and Enhanced Availability service will not be taken down at the same time for Maintenance or BCDR Tests.	DCC	M
8	The Enhanced Availability system shall have at least 99.5% availability.	DCC	M
9	The Enhanced Availability service must: - Have the capacity to handle at least 1,400,000 SRV7.4 plus corresponding Responses; - Alternatively, this may be expressed as an average maximum hourly volume. - Have the capacity to handle at least 1,400,000 AD1 Alerts per day; - Alternatively, this may be expressed as an average maximum hourly volume. - Ensure processing as close as possible to the existing standard DCC Total System functionality in terms of logging and messages; and - Target Response Times will be maintained	DCC	M
10	Using the Enhanced Availability service, Users shall be able to send the following on demand SRVs and receive appropriate responses:	DCC	S

Business Requirements			
Ref.	Requirement	Responsible for delivery	MoSCoW
	2.2, Prepay Top-up device 4.3, Read Instantaneous Prepay Values		
11	Using the Enhanced Availability service, Users should be able to receive appropriate responses: N56, Prepay Top-up device	DCC	S
12	When in use as part of the “Should scenarios” identified, the Enhanced Availability service should: - Have the capacity to handle at least 9 million SRVs per day plus corresponding Responses; and - Have the capacity to handle at least 500,000 N56 Alerts per day	DCC	S

Key

- M = Must have
- S = Should have
- C = Could have
- W = Won't have

This document contains requirements for multiple solution options, and an assessment for each option is to be provided. The table below summarises the requirements that make up each solution option:

Solution Options		
Requirement	Option 1	Option 2
Req. 1	✓	✓
Req. 2	✓	✓
Req. 3	✓	✓
Req. 4	✓	✓
Req. 5	✓	✓
Req. 6	✓	✓
Req. 7	✓	✓
Req. 8	✓	✓
Req. 9	✓	✓
Req. 10		✓
Req. 11		✓
Req. 12		✓

2. Considerations and assumptions

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

2.1 General

This solution will be applied to Smart Metering Equipment Technical Specifications (SMETS)1 and SMETS2 Devices.

2.2 Requirement 1: Using the Enhanced Availability service, Users shall be able to send the following on demand SRV and receive appropriate responses

- 7.4, Read Supply Status
- Eligible Users of this SRV include both Network Parties and Supplier Operator Agents.
 - Solution Option 1 Only: The DCC may choose to explore development of this requirement in respect of Supplier Operator Agents, only where it does not negatively impact the delivery of the Enhanced Availability solution for Network Parties in terms of both implementation date and delivery cost.

2.3 Requirement 2: Using the Enhanced Availability service, Users shall be able to receive this alert

- AD1, Power Outage Alerts
- Eligible Users of this SRV include both Network Parties and Import Suppliers.
 - Solution Option 1 Only: The DCC may choose to explore development of this requirement in respect of Import Suppliers, only where it does not negatively impact the delivery of the Enhanced Availability solution for Network Parties in terms of both implementation date and delivery cost.

- 2.4 Requirement 3: The Enhanced Availability service must be available for SMETS2 and SMETS1 Devices**
- 2.5 Requirement 4: To use the Enhanced Availability service, there shall be no changes to User-required actions or configurations. Users should not be able to distinguish between the services.**
- 2.6 Requirement 5: The Enhanced Availability system shall be as secure as the corresponding DCC Total System components, and use the same DUIS schema.**
- 2.7 Requirement 6: When a Major incident, planned maintenance, or BCDR impacts the Enhanced Availability service specifically it will not be available**
- 2.8 Requirement 7: Both the DCC Total System and Enhanced Availability service will not be taken down at the same time for Maintenance or BCDR Tests**
- 2.9 Requirement 8: The Enhanced Availability system shall have at least 99.5% availability**
- 2.10 Requirement 9: The Enhanced Availability service must be able to achieve the following:**
- Have the capacity to handle at least 1,400,000 SRV7.4¹ plus corresponding Responses;
 - Alternatively, this may be expressed as a maximum hourly volume.
 - Have the capacity to handle at least 1,400,000 AD1² Alerts per day;
 - Alternatively, this may be expressed as a maximum hourly volume.
 - Ensure processing as close as possible to the existing standard DCC Total System functionality in terms of logging and messages; and
 - Target Response Times will be maintained

The SRV7.4 and Alerts figures are limited to Network Operator usage at peak.

- 2.11 Requirement 10: Using the Enhanced Availability service, Users should be able to send the following on demand SRVs and receive appropriate responses**
- 2.2, Prepay Top-up device
 - 4.3, Read Instantaneous Prepay Values
- 2.12 Requirement 11: Using the Enhanced Availability service, Users should be able to receive appropriate responses:**
- N56, Prepay Top-up device
- 2.13 Requirement 12: When in use as part of the “Should scenarios” identified, the Enhanced Availability service should:**
- Have the capacity to handle at least 9 million SRVs³ per day plus corresponding Responses; and
 - Have the capacity to handle at least 500,000 N56 Alerts per day

¹ For SRV7.4, a 40% contingency has been added.

² For AD1, a 40% contingency has been added.

³ With 20% contingency

3. Solution options

This section outlines the solution options for this Modification Proposal. It provides detailed information on the two variants of the proposed solution for the business requirements contained in Section 1 of this document.

3.1 General

This Modification has two solution options:

- Option 1 delivers the “Enhanced Availability” functionality in respect of Network Party-benefiting SRVs & Alerts only.
- Option 2 delivers the “Enhanced Availability” functionality in respect of both Network Party and Supplier-benefitting SRVs & Alerts.

The two solution options remain the same in all other respects: The core provisions that enable the Enhanced Availability solution are the same in both solution options; the only difference is the number of SRVs proposed for inclusion.

3.2 Option 1: Network Party SRVs & Alerts Only

This solution option is the original version preferred by the Proposer, and includes only SRVs and Alerts that support Network Parties in addressing the overlap between a DCC Planned Maintenance and an adverse weather event.

3.3 Option 2: Network Party & Supplier SRVs & Alerts

This solution option is the alternative raised by the SEC Working Group in its December meeting, where additional SRVs that would be beneficial to Supplier parties in supporting Prepayment consumers were included within the scope of the core solution.

4. Glossary

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

Glossary	
Acronym	Full term
CSC	Change Sub-Committee
DCC	Data Communications Company
DSP	Data Service Provider
ENWL	Electricity Northwest Limited
GSP	Grid Supply Point
Met Office	Meteorological Office
OPR	Operational Performance Regime
OPSG	Operations Group
SEC	Smart Energy Code
SECAS	The Smart Energy Code Administrator and Secretariat
SMETS1	Smart Metering Equipment Technical Specifications 1
SMS	Smart Metering System
SRV	Service Reference Variant
SSC	Security Sub-Committee
TABASC	Technical Architecture and Business Architecture Sub-Committee