

Market Change Request 1160			Smart Metering Meter Works		
Status	Approved	Priority	High	Status Date	20/03/2019

Date	Version	Reason for Change	Version Status
17/06/2015	1.0	Issued to Market	Final
24/06/2015	2.0	Converted to MCR	Final
28/02/2019	3.0	2018 Smart MCR/DR Re-Versioning Activity	Final

Part 1 DETAIL OF DISCUSSION REQUEST / MARKET CHANGE REQUEST

Requesting Organisation(s)	NSMP	Originating Jurisdiction	ROI
Request Originator Name	Michael Moloney		
Date Raised	11/03/2015		

Classification of Request

Jurisdictional Applicability	ROI	Jurisdictional Implementation	ROI Specific
If jurisdictional implementation is for one jurisdiction only – is the other jurisdiction required to effect any changes?	Yes	Co-Ordinated Baseline Version No.	tbc
Change Type	Schema Impacting		

Detail of Request

Reason for Request

Background

The CRUER, working closely with the Department of Communications, Energy and Natural Resources (DCENR), established the National Smart Metering Programme (NSMP) in late 2007. In Phase 1, a trial was carried out in order to assess the costs and benefits of smart meters and to inform decisions relating to the full rollout. In July 2012 a decision was announced to rollout electricity and gas smart meters for all residential and small and medium sized businesses. Phase 2 commenced in January 2013 and is broadly composed of a high level design and procurement phase. [CER14046]

The Smart Metering High Level Design Decision Paper publishes in October 2014 outlines the decisions with regard to the high level design stage within Phase 2 with regards to 1) Core Design, 2) Time of Use Tariffs, 3) Presentation of Energy Usage information to consumers and 4) Pay As You Go (PAYG) solution. This next stage is to work through 5 process groups sequentially at MPD and Schema detail level to inform the Detail Design of the ROI Retail Market Design.

This MCR provides details of the Retail Market Design within the Process Group of Meter.

This MCR has been produced by the National Smart Metering Programme, following an approved process with Market Participants in ROI and NI, involving six months of retail market workshops with regular status updates to the ReMCoWG.

2018 SMART MCR/DR Re-Versioning Driver

The original NSMP Programme plan envisaged a “big bang” delivery of all NSMP functionality for electricity, gas and in-home data Smart services, with an estimated delivery date in 2023.

In early 2017 ESNB submitted a revised proposal to the NSMP to CRU, outlining a phased approach to the delivery of Smart Metering and the NSMP High Level Design (HLD). The proposal foresees delivery over three distinct phases.

Phase 1 delivers the installation of 250,000 Smart Electricity Meters by the end of 2020 (Meter installation is expected to begin prior to August 2019). With the Market Schema Release delivered at the end of 2020, all system, business and market changes will have been completed to allow 30-minute interval data to flow to Suppliers via the Market Systems

and for Interval Data to be used in all market processes including DUoS Billing and Market Settlement Aggregation. Smart Pre-Payment services without remote de-energisation/energisation can also begin after this phase and Suppliers will have the ability to offer new Time-of-Use based tariffs to their customers.

Phase 2 delivers the installation of an additional 1 million Smart Electricity Meters by the end of 2022. With the Market Schema Release at the end of 2022, all retail market use cases requiring remote and local operation of the service switch in Smart Electricity Meters will be enabled. Smart Pre-Payment services with remote de-energisation/energisation can begin after this phase.

Phase 3 delivers the installation of an additional 1 million+ Smart Electricity Meters by the end of 2024. Along with the Market Schema Release at the end of 2024, Gas Smart Metering Services and In-Home Data Services will be enabled. The installation of Smart Gas Meters and In-Home Display devices can begin after this phase. This Phased Approach proposal has been positively received by CRU and Energy Suppliers and now forms the basis of ESNs plans and assumptions in respect of the NSMP. The CRU approval of the phased approach was publically announced in September 2017.

NSMP Programme is currently progressing through Phase 1, and it is within this phase that the SMART MCR/DR re-versioning activity is being carried out.

Proposed Solution

The scope and content of the proposed changes, involving changes to Market Messages, Data Items, Data Definitions and Data Codes, would not conveniently be described directly in this DR document. Rather, the details are contained in the embedded Presentation Pack and the linked amended Design Documents (with track changes).

Scope of Change

Jurisdiction	Design Documentation	Business Process	DSO Backend System Change	MP Backend System Change	Tibco	Supplier EMMA	Schema	Webforms	Extranet/NI Market Website
ROI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NI	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Co-Ordinated Baseline Market Design Documents Impacted by Request

Market Messages

Message No.	Message Name	CoBL	ROI	NI
017	Meter Point Status Change Request	Impacted	Impacted	Impacted
030	MeterWorks Request	Non Impacted	MMG	Non Impacted
106D	Meter Point Status Confirmation DeEnergisation	Non Impacted	MMG	Non Impacted
106E	Meter Point Status Confirmation Energisation	Non Impacted	MMG	Non Impacted
117R	Meter Point Status Request Rejection	Impacted	Impacted	Non Impacted
130D	MeterWorks Request Delayed	Impacted	Impacted	Non Impacted
130R	MeterWorks Request Rejection	Impacted	Impacted	Non Impacted
131	Work Status	Impacted	Impacted	Tbc once information available
137R	Rejection Of Appointment	Non Impacted	MMG	Non Impacted
301	Meter Point Characteristics	Non Impacted	MMG	Non Impacted
303R	Customer Read Rejection	Impacted	Impacted	Non Impacted
306	Meter Point Status Change Confirmation DeEnergisation	Non Impacted	MMG	Non Impacted
306W	Meter Point status Change DeEnergisation Withdrawn Read	Non Impacted	MMG	Non Impacted
330	Non Interval To Interval Change	Non Impacted	MMG	Non Impacted
331	Interval Meter Technical Details	Impacted	Impacted	Impacted
332	Non Interval Technical Meter Details	Impacted	Impacted	Impacted
332W	Withdrawn Read Non Interval Meter Technical Details	Impacted	Impacted	Impacted

Data Definitions

Smart Non Participation Code - Code to identify Smart Non Participation details as

- 1) Non Interval Data
 - 2) Non Technical Non Participation
 - 3) Multiple Visits No Access
 - 4) Smart Meter Exchange Deferred
- "Used in NI?" column to be set to "No"

Smart Data Services

- 01 - Interval Services
 - 02 - Non Interval Services
- "Used in NI?" column to be set to "No"

Comms Technically Feasible - This flag indicates to a supplier the feasibility of the Communications to the Smart meter

"Used in NI?" column to be set to "No"

Metering Interval – amended to Metering Interval identifies, for the Retail Market, the length of a period when consumption is recorded on a profile meter. Metering Interval is a class of interval

Duos UoS Billing Frequency - Duos Billing Frequency is a code that indicates the frequency of Duos billing at the meter point

Used in NI?" column to be set to "No"

Duos Billing Cycle - Duos Billing Cycle Day refers to the day in a 41 working day cycle (ROI) that a Half Hourly meter is due to be Duos Billed

"Used in NI?" column to be set to "No"

Data Codes

New Smart Non Participation Codes on MM017

- 01 Non Interval Data
- "Valid in NI?" to "No".
- 02 - Non Technical Non Participation
- 03 - Multiple Visits No Access
- "Used in NI?" column to be set to "No"

Smart Data Services on MM017

- 01 - Interval Services
- 02 - Non Interval Services
- "Used in NI?" column to be set to "No"

Meter Configuration Code (Required) on MM017

MCC 16 SST IMP

MCC 12 HH1CH_1CR_IP

"Used in NI?" column to be set to "No"

New Comms Technically Feasible Code on MM331, MM332, MM332W boolean

Meter Point Status Reason — new codes on MM017

- D04 De-Energise Customer works
- D05 De-Energise (HH Prepayment)
- E05 Re-energise (HH PrePayment)

"Valid in NI?" to "No".

Meter Point Status – new code on **MM106D, MM306, MM306W, MM332, MM332W, MM331, MM131**
 DR De-energised Remote
 "Valid in NI?" to "No".

MM117R - Reject Reason

MIC removed
 IMF - Invalid Meter Configuration code - added
 SNP – Smart Non Participation Details - added
 SCI – Smart Configuration Invalid - added
 NSM –No Smart Meter added
 ISR – Inconsistent Service Request added

MM331

Metering Interval
 15 15 minutes
 30 30 minutes
 24 24 hr Cumulative Register End of Day reading

Register Type code
 70 Import HH kW
 71 Import HH kVAh
 74 Import 24hr kWh
 75 Import 24hr kVAh
 76 Export 24hr kWh
 77 Export 24hr kVAh

Register Type Code on **MM210, MM306, MM307, MM331, MM332, MM306W, MM307W, MM332W**
 70 Import HH kW
 74 Import 24hr kWh
 78 Day Off Peak
 79 Night Off Peak
 80 Peak

Timeslot Code on **MM332, MM332W**
 01D 08:00-17:00 & 19:00-23:00 Day Consumption
 01N 23-08 Night Consumption
 01P 17:00-19:00 Peak Consumption

DUoSBillingFrequencyCode on **MM331**
 B Bi-Monthly

DUOSBillingCycle on **MM331**

MM303R –

Reject Reason - IRI Invalid Request Half Hourly site
 Reject Reason - RIR Remote Site Invalid Read
 "Valid in NI?" column to be set to "No"

Market Message Implementation Guides			
ROI	Yes/No	NI	Yes/No
Meter Works	Yes	Meter Works	No

Comments
<p><u>MCR1160 -Presentation</u></p> <hr/> <p>All Market Design Documentation for SMART Metering Retail Market Design Workshops affected by this DR1160 can be found on the RMDS Secure Website.</p> <p>Documents:</p> <p>MPD 08 1.1 – Change to Connection Characteristics – SMART ver. 1.0</p> <p>MPD 08 1.1 – Change to Connection Characteristics Non Interval End to End Diagram – SMART ver. 1.0</p> <p>MPD 09 – De-Energisation – SMART ver. 1.0</p> <p>MPD 09 – De-Energisation End to End Diagram – SMART ver. 1.0</p> <p>MPD 10 – Re-Energisation – SMART ver. 1.0</p> <p>MPD 10 – Re-Energisation End to End Diagram – SMART ver. 1.0</p> <p>MPD 11 – Changes to Meter Configuration – SMART ver. 1.0</p> <p>MPD 11 – Changes to Meter Configuration End to End Diagram – SMART ver. 1.0</p> <p>MPD 12 – Meter Problems and Damage – SMART ver. 1.0</p> <p>MPD 12 – Meter Problems and Damage End to End – SMART ver. 1.0</p> <p>MPD 13 – Planned Meter Exchange – SMART ver. 1.0</p> <p>MPD 13 – Planned Meter Exchange Unit End to End – SMART ver. 1.0</p> <p>MPD 35 – Change of Metering Non QH to Interval – SMART ver. 1.0</p> <p>MPD 35 – Change of Metering Non QH to Interval End to End – SMART ver. 1.0</p> <p>MPD 35.1 – Change of Metering Half Hour Interval to Non Interval – SMART ver. 1.0</p> <p>MPD 35.1 – Change of Metering Half Hour Interval to Non Interval End to End – SMART ver. 1.0</p> <p>ROI Market Message Guide – Meter Works – SMART ver. 1.0</p> <p>Retail Market Impacts Meter Works – SMART ver. 1.0</p> <p>Smart CoBL</p> <p>NI:</p> <p>017 - NI MMIG - Meter Works 017MM will be updated to include New Segment "Smart Data Services" and associated Field "Smart Data Services Code" but will be marked as "Not Used in NI"</p> <p>017 - NI MMIG - Meter Works 017MM will be updated to include New Segment "Smart Data Services" and associated Field " Meter Configuration Code (Required)" but will be marked as "Not Used in NI"</p> <p>017 - NI MMIG - Meter Works 017MM will be updated to include New Segment "Smart Non Participation Details" and associated Field "Smart Non Participation Code" but will be marked as "Not Used in NI"</p> <p>331 - NI MMIG - Meter Works 331MM will be updated to include New Field " DUoSBillingFrequencyCode " but will be marked as "Not Used in NI"</p>

331 - NI MMIG - Meter Works 331MM will be updated to include New Field " DUOSBillingCycle " but will be marked as "Not Used in NI"

331 - NI MMIG - Meter Works 331MM will be updated to include New Field "Comms Technically Feasible" but will be marked as "Not Used in NI"

332 - NI MMIG - Meter Works 332MM will be updated to include New Field "Comms Technically Feasible" but will be marked as "Not Used in NI"

332W - NI MMIG - Meter Works 332WMM will be updated to include New Field "Comms Technically Feasible" but will be marked as "Not Used in NI"

ROI - Market Process Diagrams – MPDs

Market Process Diagram Number	Market Process Diagram Description	End to End Diagram	Affected
MPD 8 1.1	MPD 8 1.1 Change to Connection Characteristics	Click Here	Yes
MPD 9	MPD 9 - De-energisation	Click Here	Yes
MPD 10	MPD 10 - Re-energisation	Click Here	Yes
MPD 11	MPD 11 - Change to Meter Configuration	Click Here	Yes
MPD 12	MPD 12 - Meter Problems and damage	Click Here	Yes
MPD 13	MPD 13 - Planned Meter Exchange – NEW	Click Here	Yes
MPD 35	MPD 35 - Change of Metering NQH to QH	Click Here	Yes
MPD 35.1	MPD 35.1 Change of Metering HH interval to Non Interval – NEW	Click Here	Yes

NI - Market Procedures

Market Process Number	Market Procedure	Affected
No Impact	No Impact	No Impact

ROI Guidance Documentation

Document	Version	Affected
No impact		No Impact

ROI Briefing Documents

Document/Paper	Version	Affected
No impact		No Impact

User and Technical Documents

Reference	Name	Version	Affected
No impact			No Impact

Part 2 - Performance and Data Changes

Market Messages volume, processing etc.	
Data	
Details of Data changes e.g. cleansing	

Part 3 - ReMCoSG / CER Approval		
Approved by	ReMCoSG	CER
Comments		