Market Change Request 1160		Smart Metering Meter Works	
Status	Implemented	**Priority**	High	**Status Date**	16/02/2021

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
10/10/2019	4.0	Smart MCR Re-versioning Exercise November 2019 Final	Final
19/03/2020	5.0	Smart MCR Re-Versioning Exercise April 2020	Final
23/07/2020	6.0	Smart MCR Re-Versioning Exercise September 2020	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 CRU, 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 ESBN 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 ESBNs 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	☒	☒	☒	☒	☒	☒	☒	☒	☒
NI	☐	☐	☒	☐	☐	☐		☐	☐

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

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"

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

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Duos 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

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

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

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

Smart CoBL
NI:

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"
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"

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"

331 - NI MMIG - Meter Works 331MM will be updated to include New Field " DUoSBillingFrequencyCode " but will be marked as "Not Used in NI"
331 - NI MMIG - Meter Works 331MM will be updated to include New Field " DUOSBillingCycle " 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 Non Interval to Interval	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
Meter Configuration Code Guidance Notes		Yes

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

	ReMCoSG	CER
Approved by		

Comments