

Discussion Request 1161			Smart Metering New Connections		
Status	Approved	Priority	High	Status Date	20/03/2019

Date	Version	Reason for Change	Version Status
08/04/2015	0.1	Initial Draft to facilitate Market Discussion	Draft
29/04/2015	0.2	Feedback from Workshop 1	Draft
21/02/2019	1.0	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	08/04/2015		

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
<p>Background</p> <p>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].</p> <p>The Smart Metering High Level Design Decision Paper published 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.</p> <p>This DR provides details of the Retail Market Design within the Process Group of New Connections.</p> <p>This DR 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.</p> <p>2018 SMART MCR/DR Re-Versioning Driver</p> <p>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.</p> <p>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</p>

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 MR/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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NI	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>

Co-Ordinated Baseline Market Design Documents Impacted by Request

Market Messages

Message No.	Message Name	CoBL	ROI	NI
010	Registration Request	Impacted	Impacted	Impacted
101	New Connection Registration Acceptance	Impacted	Impacted	Impacted
101A	Registration Smart Data Service Change Notification -NEW	Impacted	Impacted	Impacted
101P	New Connection Provisional Acceptance	Impacted	Impacted	Impacted
101R	New Registration Rejection	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.

Delete Smart Non Participation Flag - This is a flag indicating whether or not Smart Non Participation details are to be deleted.

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

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

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.

Smart Data Services

01 - Interval Services

02 - Non Interval Services

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

Data Codes
<p>New Smart Non Participation Codes on MM010 01 Non Interval Data 02 Non Technical Non Participation 03 Multiple Visits No Access</p>
<p>New Smart Non Participation Codes on MM101P 01 Non Interval Data 02 Non Technical Non Participation 03 Multiple Visits No Access 04 Smart Meter Exchange Deferred</p>
<p>New Smart Non Participation Codes on MM101 01 Non Interval Data 02 Non Technical Non Participation 04 Smart Meter Exchange Deferred</p> <p>"New Smart Non Participation Codes 04, 02, 03, 04 - For these Data Codes set Data Code documentation - Set "Valid in NI?" to "No".</p>
<p>Smart Data Services Codes on MM101 and MM101P 01 - Interval Services 02 - Non Interval Services</p>
<p>New Comms Technically Feasible Code on MM101, MM 101P boolean 01 Comms Proving failed 02 Non Interval Service Standard 03 Interval Service Standard 04 Remote Re-energisation Pre Payment standard of quality</p>
<p>Meter Point Status - new code on MM101P DR De-energised Remote -Set "Valid in NI?" to "No".</p>
<p>MM101R - Reject Reason SNP – Smart Non Participation Details SCI – Smart Configuration Invalid IMF- Invalid Meter configuration Code NSM No Smart Meter ISR Inconsistent Service Request</p> <p>Set "Valid in NI?" to "No".</p>

Market Message Implementation Guides			
ROI	Yes/No	NI	Yes/No
Meter Registration	Yes	Meter Registration	No
Comments			
<p>DR1161 -Presentation</p> <hr style="border: 1px solid black;"/> <p>All Market Design Documentation for SMART Metering Retail Market Design Workshops affected by this</p>			

DR1161 can be found on the RMDS Secure Website.

ROI Documents:

MPD 05 – New Non Interval Metered Connection – SMART ver. 0.2

MPD 05 – New Non Interval Metered Connection End to End Diagram – SMART ver. 0.1

MPD 06 – New Interval Metered Connection – SMART ver. 0.2

MPD 06 – New Non Interval Metered Connection End to End Diagram – SMART ver. 0.1

ROI Market Message Guide – Meter Registration – SMART ver. 0.4

Retail Market Impacts New Connections_MPs – SMART ver. 0.2

MMIG - Meter Registration documentation will be impacted as follows:

010 - Update to include New Segment "SmartNonParticipationDetails", "SmartNonParticipationCode", and "DeleteSmartParticipationFlag" with descriptions to state "Not Used in NI".

101 - Update to include "DUoS Billing Frequency Code", "DUoS Billing Cycle", "CommsTechnicallyFeasible", "SmartNonParticipationDetails" and "SmartNonParticipationCode" with descriptions to state "Not Used in NI".

101P - Update to include "DUoS Billing Frequency Code", "DUoS Billing Cycle", "CommsTechnicallyFeasible", "SmartNonParticipationDetails" and "SmartNonParticipationCode" with descriptions to state "Not Used in NI".

101A – Update to state "101A – Market Message Not Used in NI".

ROI - Market Process Diagrams – MPDs

Market Process Diagram Number	Market Process Diagram Description	End to End Diagram	Affected
MPD 5	MPD 05 – New Non-Interval Metered Connection – SMART ver. 13.0	Click Here	Yes
MPD 6	MPD 06 – New Interval Metered Demand Connection – SMART ver. 13.0	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		