

Market Change Request 1159			Smart Metering Change of Supplier		
Status	Implemented	Priority	High	Status Date	16/02/2021

Date	Version	Reason for Change	Version Status
24/06/2015	2.0	Converted to MCR	Final
28/01/2019	3.0	2018 Smart MCR/DR Re-Versioning Activity	Final
10/10/2019	4.0	Smart MCR Re-versioning Exercise November 2019 New cancellation reason code CF(Configuration Failed)	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	04/03/2015		

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 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.

This DR provides details of the Retail Market Design within the Process Group of Change of Supplier.

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.

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 ESNBs 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 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
010	Registration Request	Impacted	Impacted	Smart Non Participation codes tbc
102	Change of Supply Registration Acceptance	Impacted	Impacted	Non Impacted
102A	Change of Supplier Advice Notification new	Impacted	Impacted	Non Impacted
102P	Change of Supplier Provisional Acceptance	Impacted	Impacted	Non Impacted
102R	Change of Supplier Registration Rejection	Impacted	Impacted	Non Impacted
105	Change of Supplier Confirmation	Impacted	Impacted	Non Impacted
111	Registration Cancellation	Impacted	Impacted	Non Impacted
111L	Registration Cancellation Customer Loss	Impacted	Impacted	Non Impacted
112R	Notification of Objection Rejection	Impacted	Impacted	Non Impacted
310	Validated CoS Reading	Non Impacted	MMG	Non Impacted
310W	Withdrawn CoS Reading	Non Impacted	MMG	Non Impacted
320	Validated CoS Reading	Non Impacted	MMG	Non Impacted
320W	Withdrawn CoS Reading	Non Impacted	MMG	Non Impacted

Data Definitions
Smart Non Participation Code - Code to identify Smart Non Participation details to be deleted
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 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 On 102, 102A, 102P, 105
Meter Configuration Code — remove from MM010
Registration Meter Configuration Code — remove from MM102 and MM102P

Data Codes

<p>New Smart Non Participation Codes on 010, 101, 101P, 102, 102A, 102P, 105 01 Non Interval Data 02 Non Technical Non Participation 03 Multiple Visits No Access 04 Smart Meter Exchange Deferred Different combination of the 4 codes above on relevant Market Messages</p> <p>Smart Data Services Code 01 - Interval Services 02 - Non Interval Services</p> <p>New Comms Technically Feasible Code Field on 102, 102A, 102P, 105 boolean</p> <p>New Rejection Codes SCI Smart Configuration Invalid SNP Smart Non Participation details invalid NSM No Smart Meter ISR Inconsistent Service Request CF Configuration Failed</p> <p>Deleted MC – Meter Change from MM010, Data Item Change of Supplier Read Arrangement</p> <p>New Meter Point Status – DR – De-energise remote on 102P, 310, 310W</p> <p>102R - New Reject Reason Code - IM – Interval Meter Point on 102R - Remove IMF The CoS Read Arrangement is 'MC' but the requested Meter Configuration Code is not valid on 102R - Add DIJ will be used where read arrangement MC is populated on 102R - IM Replaces QHM (still valid for 112R) A CoS Read Arrangement was provided for an Interval Meter Point - If Half Hourly site has trading site Supplier Unit on 010 will issue with existing Reject Reason Code of TSR SCI – Smart Configuration Invalid where Smart Data Services exist but haven't been requested NSM – Smart Configuration Invalid where Smart Data Services have been requested without a smart Meter present on site IMF- Invalid Meter configuration Code where the Smart Data Service requested and MCC are invalid SNP – Smart Non Participation details invalid ISR – Smart Non Participation details and Smart Data Services have been populated together</p> <p>111/111L CF – Configuration Failed</p> <p>112R Code Description change: QHM – An objection is not valid for an QH Interval Meter Point</p>

Extranet/ Downloadable Files

Data codes to be added
Non Technical Non Participation _____ 02
Multiple Visits No Access _____ 03

New Fields & Associated Values					
Extranet Field Name	Extranet Field Values	MPRN Enquiry Tab	New Connections Tab	Messages Tab	Notes
Smart Data Services Code	01 - Interval Services	X	X		* Only the numerical code will be displayed * Only 02 will be displayed on the New Connections tab
	02 - Non Interval Services				
Comms Technically Feasible	01 - Comms proving failed	X			* Only the numerical code will be displayed
	02 - Non Interval Services Standard				
	03 - Interval Services Standard				
	04 - Remote Re-energisation Pre Payment standard of quality				
Smart Non Participation Code	02 - Non Technical Non Participation	X			* Only the numerical code will be displayed.
	03 - Multiple Visit No Access				
	04 - Smart Meter Exchange Deferred				
DUoS Billing Frequency	B (Bi-Monthly)	X			
DUoS Billing Cycle	01-41	X			
Smart Meter Exchange Deferred					04
Interval Services					01
Non Interval Services					02
Comms Proving failed					01
Non Interval Service Standard					02
Interval Service Standard					03
Remote Re-energisation Pre Payment standard of quality					04
MCC12					HH1CH_1CR_IP
MCC16					SST IMP
08:00-17:00 & 19:00-23:00 Day Consumption					01D
23-08 Night Consumption					01N
17:00-19:00 Peak Consumption					01P
Extranet Files:					
Existing Fields with New Values					
Extranet Field Name	Extranet Field Values	MPRN Enquiry Tab	New Connections Tab	Messages Tab	Notes
MCC	MCC12 - HH1CH_1CR_IP	X	X		* Only the numerical code will be displayed
	MCC16 - SST IMP				
Standard Profile	25 - Urban domestic SST	X	X		* Only the numerical code will be displayed
	27 - Rural domestic SST				
	29 - Non-domestic SST				
Timeslot	01D - Day	X			* Only the numerical code will be displayed
	01N - Night				
	01P - Peak				
Register Type	70 - Import HH kW	X			* Only the numerical code will be displayed
	78 - Day Off Peak				
	79 - Night Off Peak				
	80 - Peak				

Metering Class	HH	X	X	X	* HH presented where MCC = MCC12 * NHH presented where MCC = MCC16 * Only NHH will be displayed on the New Connections Tab
	NHH				
All Messages	322 - DUoS Billing Cycle Notification			X	* Only the numerical code will be displayed
	343 - Smart Metering Interval Data				
	345 - Smart HH Cumulative Register Readings				
Data Processing Messages	322 - DUoS Billing Cycle Notification			X	* Only the numerical code will be displayed
	343 - Smart Metering Interval Data				
	345 - Smart HH Cumulative Register Readings				

Downloadable Files:

New Fields & Associated Values					
Downloadable Field Name	Downloadable Field Values	DOM_CUST File	COMM_CUST File	DOM_REG File	COMM_REG File
Smart Data Services Code	01 - Interval Services	X	X		
	02 - Non Interval Services				
Comms Technically Feasible	01 - Comms proving failed	X	X		
	02 - Non Interval Services Standard				
	03 - Interval Services Standard				
	04 - Remote Re-energisation Pre Payment standard of quality				
Smart Non Participation Code	02 - Non Technical Non Participation	X	X		
	03 - Multiple Visit No Access				
	04 - Smart Meter Exchange Deferred				
DUoS Billing Frequency	B (Bi-Monthly)	X	X		
DUoS Billing Cycle	01-41	X	X		

Existing Fields with New Values					
Downloadable Field Name	Downloadable Field Values	DOM_CUST File	COMM_CUST File	DOM_REG File	COMM_REG File
MCC	MCC12 - HH1CH_1CR_IP	X	X		
	MCC16 - SST IMP				
Profile	25 - Urban domestic SST	X	X		
	27 - Rural domestic SST				
	29 - Non-domestic SST				
Time of Use	01D - 08:00-17:00 & 19:00-23:00 Day Consumption			X	X
	01N - 23-08 Night Consumption				

	01P - 17:00-19:00 Peak Consumption				
Register Type	70 - Import HH kW			X	X
	78 - Day Off Peak				
	79 - Night Off Peak				
	80 - Peak				

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

Comments

ROI - Market Process Diagrams – MPDs			
Market Process Diagram Number	Market Process Diagram Description	End to End Diagram	Affected
MPD 01	MPD 01 - Change of Supplier - Non Interval	Click Here	Yes
MPD 02	MPD 02 - Change of Supplier - Interval	Click Here	Yes
MPD 03	MPD 03 - Objection and Cancellation	Click Here	Yes
MPD 3.1	MPD 03.1 Automated Debt Flagging	Click Here	Yes
MPD 04	MPD 04 – Supplier of Last Resort	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
Downloadable Meter Point Files Guide
Retail Market Participant Extranet

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		