

Discussion Request 1157			Smart Metering Data Processing and Data Aggregation		
Status	Approved	Priority	High	Status Date	24/06/2015

Date	Version	Reason for Change	Version Status
17/06/2015	1.0	Issued to Market	Final

Part 1 DETAIL OF DISCUSSION REQUEST / MARKET CHANGE REQUEST			
Requesting Organisation(s)	NSMP	Originating Jurisdiction	RoI
Request Originator Name	Michael Moloney		
Date Raised	04/02/2015		

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 CER, 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 Data Processing and Data Aggregation.</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>

Proposed Solution
<p>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 amended Design Documents (with track changes).</p>

Scope of Change

Jurisdiction	Design Documentation	Business Process	DSO Backend System Change	MP Backend System Change	Tibco	Supplier EIMMA	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 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
303R	Customer Read Rejection	Impacted	Impacted	No impact
352R	Special Reading Request Rejection	Impacted	Impacted	No impact
305	Non Settlement Estimates	Impacted	Impacted	No impact
322	DUoS Billing Cycle Notification	Impacted – new	Impacted - new	Impacted
341	Import Interval Meter Daily Readings	Impacted	Impacted	Impacted
342	Export Interval Meter Daily Readings	Impacted	Impacted	Impacted
343	SMART Import Interval Meter Daily Readings	Impacted – new	Impacted – new	Impacted
344	SMART Export Interval Meter Daily Readings	Impacted – new	Impacted – new	Impacted
345	SMART HH Cumulative Register Readings	Impacted – new	Impacted - new	Impacted
592	SMART Interval Import Aggregation	Impacted – new	Impacted - new	Impacted

Data Definitions
DUoS Billing Frequency - Duos Billing Frequency is a code that indicates the frequency of Duos billing at the meter point Not used in NI - set "Used in NI?" column 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 Not used in NI - set "Used in NI?" column 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

Data Codes
MM305 – No read code - 98 Comms not available "Valid in NI?" - "No"
MM343 Register Type code - 70 Import HH kW "Valid in NI?" - "No" Register Type code - 71 Import HH kVAr "Valid in NI?" - "No"
MM344 Register Type code - 72 Export HH kW "Valid in NI?" - "No" Register Type code - 73 Export HH kVAr "Valid in NI?" - "No"
MM345 Register Type code - 74 Import 24hr kWh "Valid in NI?" - "No" Register Type code - 75 Import 24hr kVArh "Valid in NI?" - "No" Register Type code - 76 Export 24hr kWh "Valid in NI?" - "No"

Register Type code - 77 Export 24hr kVAh "Valid in NI?" - "No"

MM303R – Reject Reason

IRI Invalid Request Half Hourly site "Valid in NI?" - "No"

Reject Reason - RIR Remote Site Invalid Read "Valid in NI?" - "No"

MM352R – Reject Reason

IRI Invalid Request Half Hourly site "Valid in NI?" - "No"

MM341, MM342, MM343, MM344

Metering Interval - 15 15 minutes "Valid in NI?" - "No"

Metering Interval - 30 30 minutes - "Valid in NI?" to be set to "Yes" and as per the existing baseline NI Market Message Implementation Guides.

MM345

Metering Interval - 24 24 hr Cumulative Register End of Day reading "Valid in NI?" - "No"

Market Message Implementation Guides

ROI	Yes/No	NI	Yes/No
ROI Market Message Guide - Data Processing	Yes	NI Market Message Implementation Guide - Data Processing	Yes
ROI Market Message Guide - Data Aggregation	Yes	NI Market Message Implementation Guide - Data Aggregation	Yes

Comments

All Market Design Documentation for SMART Metering Retail Market Design Workshops affected by this DR1157 can be found on the RMDS Secure Website.

Documents:

MPD 14 – Readings Processing Non Interval – SMART ver. 1.0

MPD 14 – Readings Processing Non Interval End to End Diagram SMART ver. 1.0

MPD 15 – Data Processing – Interval Meter – SMART ver. 1.0

MPD 15 – Data Processing Interval End to End Diagram – SMART ver. 1.0

MPD 16 2.1 – Data Aggregation – SMART ver. 1.0

MPD 16 2.1 – Data Aggregation End to End Diagram – SMART ver. 1.0

MPD 16 2.1 – Data Aggregation Supplementary Information – SMART ver. 1.0

MPD 18 – Special Read Requests – SMART ver. 1.0

MPD 18 – Special Read Request End to End Diagram – SMART ver. 1.0

MPD 20 – Change of SSAC and/or Supplier Unit – SMART ver. 1.0

MPD 20 – Change of SSAC and or Supplier Unit – SMART ver. 1.0

ROI Market Message Guide – Data Aggregation – SMART ver. 1.0

ROI Market Message Guide – Data Processing – SMART ver. 1.0

Data Aggregation Briefing Document – SMART ver. 1.0

Data Aggregation Summary Document – SMART ver. 1.0

Retail Market Impacts DP DA_MPs – SMART ver. 1.0

Smart CoBL v2.4

NI:

NI Market Message Implementation Guides (MMIG):

- "Data Aggregation" will be updated to state new Market Message 592 is Not Used in NI
- "Data Processing" will be updated to state new MMs 322, 343, 344, 345 are Not Used in NI

ROI - Market Process Diagrams – MPDs

Market Process Diagram Number	Market Process Diagram Description	Affected
MPD 14	Readings Processing NQH	Yes
MPD 15	Data Processing – QH Meter	Yes
MPD 16 2.1	Data Aggregation	Yes
MPD 18	Special Read Requests	Yes
MPD 20	Change of SSAC and/or Supplier Unit	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
Aggregation Briefing Document	3.6	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

Approved by	ReMCoSG	CER
Comments		