

MCR		1024		Global Aggregation		Priority Fast Track	
Harmonisation Status			CLOSED - Approved			CR Status	Approved
						Status Date	23/02/2011
Date	Version	Reason For Change				Version Status	
04/10/2010	v1.0	Initial version				Final	
21/10/2010	V2.0	Converted to MCR. Two changes made from the associated Discussion Request. In "Impact to Retail Market", the phrase "...MRSO will provide a daily NQH factor..." now reads "...MRSO will provide daily NQH factors...". Also the sentence "Settlement Class in Retail Market Messages 101, 101P, 102P" now reads "Settlement Class in Retail Market Messages 101, 101P, 102, 102P and 105"				Final	
26/10/2010	V2.1	MCR Change History corrected (line above) to include reference to 102 and 105 messages.				Final	
16/02/2011	V2.2	Planned update to MM597 removed as this is not now needed. Unnecessary references to MM590 removed. Wholesale and Retail Market update release dates updated.				Final	
PART 1 DETAIL OF DISCUSSION REQUEST/MARKET CHANGE REQUEST:							
Requesting Organisation(s)	ESB Networks/MRSO			Originating Jurisdiction	RoI		
Contact name	James Long						
Date Request Raised	01/10/2010			Originating Request	DR 1024		
Detail of Request							
Reason for Request							
<p>CER has sought to have this Discussion Request progressed for implementation in the Retail Market in tandem with the necessary changes in the Wholesale Market, however SEMO will deliver their Wholesale Market Schema Release on the 6th May 2011 while Global Aggregation in the retail market will happen over the weekend of the 3rd-6th June.</p> <p>In NI Global Aggregation is expected to be implemented as part of the Harmonisation programme.</p>							
Proposed Solution							
Background							
<p>Global Aggregation will have most impact in the SEM Wholesale Market and involves smearing the residual across all Suppliers in an equitable and transparent method.</p> <p>A small level of change to the Retail Market design is proposed in this document. In summary it includes an additional field on one aggregation message and a change in the use of an existing codified field on three registration messages.</p>							
SEMO Modification 34_09							
<p>Modification 34_09 was received by the SEMO Secretariat on 11 September 2009 and presented at Meeting 24 of the Modifications Committee on 29 September 2009. The proposal was raised to initiate discussion to develop options of achieving equal treatment for all Supplier Units in SEM. The SEM rules as currently written result in ESBCS and NIEES being settled by difference through the Error Supplier Unit whereas other Supplier Units are settled based on their aggregated metered quantities. The Committee recognised the need to address the proposal by means of a wider project. The Modification was deferred at Meeting 24, a number of meetings took place to facilitate further work by way of Working Group meetings to develop various options for the proposal. Three versions of the proposal are available from SEMO. Version 2 (Mod_34_09_V2 Option E) was selected following a vote at an Extraordinary Modifications Committee Meeting 15 September 2010.</p>							
<u>Option E Enhanced Dual Factor Smear</u>							
<p>This proposes over time to deregister the Error Supplier Units and allocate the financial cost of Residual Error Volumes to all Supplier Participants registered in the SEM, based on their customer profile (Interval and Non-Interval metered customers). The main features in the proposal include:</p> <ul style="list-style-type: none"> • It facilitates Error Supplier Units in either Jurisdiction, which allows the Modification to be implemented separately in each Jurisdiction thus providing both an All Island solution and an interim solution for RoI jurisdiction without the need for additional work. • Calculation of the Loss-Adjusted Residual Error Volume which will be zero while the Error Supplier Unit remains registered in the relevant Jurisdiction or will be equal to the current calculation of the Error Supplier Unit volume when there is no longer an Error Supplier Unit registered in the relevant Jurisdiction. 							
<ul style="list-style-type: none"> • A new annual Residual Meter Volume Interval Proportion will be determined by the Regulatory Authorities, to define the amount of the Loss-Adjusted Residual Error Volume to be spread across Interval Metering volumes. • A new Non Interval Energy Proportion for each Supplier Unit in each Trading Period, representing the proportion of Supplier Unit volume that relates to Non-Interval Metering will be created. • Calculation of the Net Demand Adjustment for all Supplier Units, which determines the applicable proportion of the Loss-Adjusted Residual Error Volume (a function of the annual Residual Meter Volume Interval Proportion and the Non Interval Energy Proportion) to be allocated to the relevant Supplier Unit. • Calculation of Settlement Net Demand for Supplier Units, adding the Net Demand Adjustment to the Net Demand value. • Adjustment of existing settlement calculations to use Settlement Net Demand rather than Net Demand. • Publication of the annual Residual Meter Volume Interval Proportion, Non Interval Energy Proportion, Aggregate Interval Net Demand and Aggregate Non Interval Net Demand. • New Data Transaction to provide Net Demand Adjustment data to the System Operators to support TUoS billing activities. • Addition of the Non Interval Energy Proportion to the MDP message submission (currently including meter data). 							

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Impact on Retail Market			
<p>596 MM It is proposed that to facilitate Mod_34_09, MRSO will provide daily NQH factors to SEMO for each supplier unit in line with and based on the current data aggregation procedures.</p> <p>The proposed method for providing this factor would be to use the current 590 message that is sent to SEMO as part of each data aggregation run.</p> <p>For the NPED 590 MM the factor will be based on the gross NQH consumption per unit and per 30 minute interval divided by the sum of the gross NQH demand + gross QH demand per unit per 30 minute interval.</p> <p>This factor would also be displayed on the 596 message.</p> <p>This will result in an additional field on the 590 and 596 messages in order to carry the NQH factor.</p> <p>Note: The Retail Market values for the new field name, Data Definition, Optionality, characteristics such as numeric or otherwise, field length and precision are dependent on the SEMO requirements for the 590MM.</p> <p>Settlement Class in Retail Market Messages 101,101P,102P, 102, 105</p> <p>This is a code that specifies how data is to be processed and aggregated for Settlement</p> <p>There is a requirement to change the Settlement Class to reflect what is actually happening viz to change from current value of X = No settlement, for ESB PES registrations only to one of the following values, as relevant :</p> <ul style="list-style-type: none"> • N – Synthetic profile to be used in settlement • P – Interval data (collected from QH Meter) to be used in settlement • U – Meter point settled using unmetered profile <p>Impact on ESBCS Supplier Unit</p> <p>The introduction of Global Aggregation will see a significant increase in the number of MPRN's currently being aggregated. Additional testing on performance will need to be carried out to assess the impact of Global Aggregation.</p>			
Classification of Request			
Harmonisation Impacting		X	Harmonisation Baseline Version No.
NI Specific			TBD
	RoI Specific		Operational
			HWG Transfer Date
Scope of Request			
Design Documentation	Business Process	Market & MP Systems	Market Gateway (Hub)
MPCC/ EMMA	Schema	Web Forms	Extranet
X	X	X	X
Harmonisation Baseline Documents impacted by Request			
Market Messages:	Market Messages - Data Aggregation		
Data Definitions:	Yes		
Data Codes:	No impact		
Value Lists:	No impact		
RoI MM Guide:	RoI Market Message Guide - Data Aggregation, RoI Market Message Guide - Meter Registration		
NI MM Guide:	NI Market Message Implementation Guide - Data Aggregation, NI Market Message Implementation Guide - Meter Registration		
Harm. Impact (RoI):	Yes		
Change Note (NI):	Yes		
Comment:			
Jurisdictional Market Design Baseline Documents impacted by Request			
Market Process Diagrams (MPDs):	MPD 16 2.1 Data Aggregation (Diagram and Supplementary Information)		
Guidance Documentation	WP 0007 Controls for TSO TuoS system for Initial Data Aggregation		
Briefing Documents:	Aggregation Briefing Document		
User and Technical Documents:	No impact		
Comment:	* Message 596 (changes to message Segments), MPD 16 (update Change History to reflect these Message Changes * Update to WP 0007: Remove the sentence " MRSO will have a Control check that all QH demand data for PES relevant to that Settlement Day has been sent on a 341 message" (no longer applicable, as per email from MRSO (Jim Long) to RMDS on 04/10/10.		

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PART 2 MARKET ASSURANCE:							
Applicability		DSO	Suppliers	TSO	SEMO	Generators	
		X	X	X	X	X	
Scope of Test		Business Solution Assessment	Integration Test Assessment	Data Transfer Testing	IPT	Other (specify)	
		X	X	X	X	Performance	
PART 3 RECOMMENDATION							
Recommended by		SIG		IGG	HWG	X	
ACCEPTANCE (Date)	REJECTION (Date)	NO RECOMMENDATION		COMMENT			
26/10/2010				Approved at HWG Workshop			
Reason for Recommendation							