

| DR 1024 Global Aggregation | | | Priority Fast Track |
|---|---------------------------------------|---------------------|---------------------------------|
| Harmonisation Status | IN PROGRESS - For Discussion with HWG | | CR Status Issued |
| Date | Version | Reason For Change | Version Status |
| 04/10/2010 | v1.0 | Initial version | 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 | - |
| 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 and delivered simultaneously with the next Wholesale Market Schema Release (30th April 2011) in order to provide an interim aggregation solution to facilitate deregulation of ESB CS tariffs.</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 two aggregation messages 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> <p>This Modification promotes the Trading and Settlement Code objective 6, "to ensure no undue discrimination between persons who are parties to the Code". Current treatment in the Trading and Settlement Code places all of the financial cost of the Residual Error Volume on the registrants of the Error Supplier Units. The approved Option E would remove this obligation and allocate the financial cost of the Residual Error Volume to all Supplier Units, proportionally to the amount of non-Interval meter volume as calculated for the relevant Supplier.</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. • 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

590, 596 597MM

It is proposed that to facilitate Mod_34_09, MRSO will provide a daily NQH factor to SEMO for each supplier unit in line with and based on the current data aggregation procedures.

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.

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.

For the NPEG 590 MM the factor value will always be zero.

This factor would also be displayed on the 596 and 597 messages.

This will result in an additional field on the 590, 596 and 597 messages in order to carry the NQH factor.

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.

Settlement Class in Retail Market Messages 101,101P,102P

This is a code that specifies how data is to be processed and aggregated for Settlement

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 :

- 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

Impact on ESBCS Supplier Unit

All settlement relevant MPRNs that are registered to ESBCS will be aggregated in an appropriate Supplier Unit that will be agreed in advance with ESBCS and SEMO and from the agreed settlement date.

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.

| Classification of Request | | | | | | | |
|---------------------------|--|--------------|--|------------------------------------|--|-------------------|-----|
| Harmonisation Impacting | | X | | Harmonisation Baseline Version No. | | TBD | |
| NI Specific | | RoI Specific | | Operational | | HWG Transfer Date | TBD |

| 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: | TBD |
| RoI MM Guide: | ROI Market Message Guide - Data Aggregation, ROI Market Message Guide - Meter Registration |
| NI MM Guide: | TBD |
| Harm. Impact (RoI): | Yes |
| Change Note (NI): | TBD |
| Comment: | |

| | | | |
|--|--|---------------------------|--------------------------------------|
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| 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: | TBD | | |
| Comment: | * Messages 596, 597 (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. | | |

| 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 | |
| ACCEPTANCE (Date) | REJECTION (Date) | NO RECOMMENDATION | COMMENT | | |
| | | | | | |
| Reason for Recommendation | | | | | |
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