

MCR 1135 MPRN Enquiry web service			Priority
Co-Ordinated Markets Status			High
Implemented		CR Status	Implemented
		Status Date	16/02/2021
Date	Version	Reason For Change	Version Status
05/06/2013	v1.0	Issued to Market	Final
09/10/2013	v2.0	Updated Proposed Solution further to findings by ESBN. Converted DR to MCR Issued to Market	Final
13/03/2019	V3.0	Updated Proposed Solution further to confirmation by ESBN	Final
18/04/2019	V4.0	Updated to Incorporate feedback from Market Participants following collaborative engagement exercise	Final
12/06/2019	V5.0	The accompanying MS Excel file has been updated to include the following clarifications: <ol style="list-style-type: none"> <li>1. Two new tabs have been added to articulate the Web service design details for Grouped Unmetered sites (i.e. GMPRN and TMPRN)</li> <li>2. Further clarification on the representation of multiple/repeating fields within a given web service call.</li> </ol> Please refer to page 2 of this MCR, and the accompanying MS Excel spreadsheet for further details.	Final
10/10/2019	V6.0	The accompanying MS Excel file has been updated to include the following clarification:  The <b>Metadata - Metered MPRN Tab</b> has been updated to include the Field Name <b>SmartDataServicesCode</b> as applicable for an MPRN with a status of 'A'.	Final
19/03/2020	V7.0	Smart MCR Re-Versioning Exercise April 2020 <ul style="list-style-type: none"> <li>- The High Level Design section has been updated to include a clarification regarding GPMRN and TMPRN data.</li> <li>- The accompanying MS Excel file has been updated to include the following clarifications:               <ul style="list-style-type: none"> <li>• The removal of 8 header data Field Names (MessageTypeCode, VersionNumber, TransactionReferenceNumber, TimeStamp, SenderID, RecipientID, MPBusinessReference &amp; SupplierMPID) which are no longer required.</li> <li>• The addition of 3 Field Names (MPRNAssignedOn, ContactTelNo &amp; Multiplier) which are required.</li> <li>• The update of the Length for 5 Field Names (StandardProfile, MeterPointStatus, ConnectionVoltage, BurnHourCalendar &amp; ReferenceNo).</li> <li>• The update of the field Type for 1 Field Name (StandardProfile).</li> <li>• The update of the Description for 7 Field Names (MPRN, GroupedMPRN, Name, MeteringClass, EligibilityforQHMetering, ReadCycleDay &amp; NextReadDate).</li> <li>• The update of the Cell colour in columns H and I for 4 Field Names (MeterPointStatus, DUoSGroup, MIC &amp; ConnectionVoltage).</li> <li>• The removal of 5 Reject Reason Codes (IID (duplicate), IDT, IMS, IRQ &amp; Placeholder).</li> <li>• The update of 1 Reject Reason Sample Trigger (IID).</li> </ul> </li> </ul>	Final

23/07/2020	V8.0	Updated as part of the Smart MCR Re-Versioning Exercise September 2020	Final
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**PART 1 DETAIL OF DISCUSSION REQUEST/MARKET CHANGE REQUEST:**

<b>Requesting Organisation(s)</b>	Energia	<b>Originating Jurisdiction</b>	RoI
<b>Contact name</b>	Paul McCormick (paul.mccormick@energia.ie)		
<b>Date Request Raised</b>	22/05/2013	<b>Originating Request</b>	DR 1135

**Detail of Request**  
**Reason for Request**

As part of the enduring solution, a request was made to help with accuracy and efficiencies of customers moving between suppliers. To enable this a web service was created by NIE Networks that allowed all suppliers access to customers data on demand. This helped suppliers have accurate data from the moment they started the registration process and allowed them to spot any errors within the market's data.

Overall this new web service has been well received by all suppliers and has helped assist competition within the electricity market. Similar benefits have been shown in the gas market. Due to this we would like to request a similar service for the ROI market

This will add new efficiencies and accuracy within the ROI registrations process, with every supplier having a different bespoke solution which will have to be changed periodically.

**Proposed Solution**

ESBN advise Market Participants on the following clarifications relating to the solution proposed by ESBN for this MCR and agreed with Market Participants in August 2018:

This proposed solution is to provide an MPRN Enquiry web service for all suppliers in ROI.

The scope of this proposal includes the information currently available on the 'MPRN Enquiry' screen of the ROI RMP Extranet and the Smart extranet requirements as outlined in MCR1159 Change of Supplier.

Planned availability of service will be in line with that currently provided for the ROI RMP Extranet(i.e. service will be available 24/7, with the exception of planned outages or unexpected issues impacting on the production central market systems)

Unlimited on demand information will not be available (e.g. unlimited web service calls per MPRN per 24hour period etc).

ESBN will engage with Market Participants to agree upper limits which will support market requirements while ensuring no negative impact on the performance or security of the Central Market Systems. The exact limits will be confirmed following discussion with Market Participants.

The 'MPRN Enquiry' screen of the ROI RMP Extranet, Downloadable files and this proposed web service solution should align. Therefore any future change requests to amend or enhance this web service will likely mean that the same changes would be needed to the ROI RMP Extranet and Downloadable Files, and vice-versa.

The functionality that supports the Market Message Enquiry, New Connection, PMP, Appointments as well as sundry MPRN enquires will continue to be provided on the ROI RMP Extranet.

### High Level Solution Design:

- ESBN will provide the Web Service as part of the Central Market Systems (CMS).
- Market Participants will be responsible for developing their own systems to integrate with this web service.
- Calls to the Web Service will be driven by Market Participants systems.
- All calls will be subject to the following protocols:
  - User Authentication
  - Security
  - Performance
- MPRN Enquiry information requests will be subject to validation.
- Meter Point Status must have a status of A, E or D for data to be returned.
- If the request is invalid then the appropriate response will be sent back to the Market Participant
- If the request is valid then appropriate information will be extracted from CMS and returned through the same channel to the requesting Market Participant.
- Market Participant requests should be issued via HTTPS call to this web service.
- ESBN responses will be issued in JSON format.
- The format and fields are outlined in the attached MS Excel file.
- The web service will cater for Grouped Unmetered sites as outlined in the accompanying MS Excel file. Please refer to the tabs called: "Metadata - UnMetered Tmprn" and "Metadata- UnMetered Gmprn" for further details.
- Please note the data presented for a Gmprn will be specific to the individual Gmprn and will not include a list of associated Tmprns as per the current functionality within the RMP Extranet.
- Please also note that all three tabs, on this spreadsheet, contain the same full list of possible data fields in the Metadata and it is the value in the associated mapping column(s) that indicates whether the data field applies or not. In the MS excel sheet the value 'N/A' represents a field which does not apply to the MPRN type in question.
- Further clarification has been provided in the MS Excel on the representation of multiple/repeating fields. Please refer to column "Required or Optional" (i.e. Column C) and "Possible No. of Values Returned per Request" (i.e. Column D).

Please see reference table below and refer to MS Excel for further details

Required or Optional (Column C)	Possible No. of Values Returned per Request (Column D)	Example Field (For Reference)	Description
req	1	MPRN	Where a value is required ( <b>req</b> ) and <u>only</u> a single value can be returned
reqM	1 to Many	Serial Number	Where a value is required ( <b>reqM</b> ) and more than one value can be returned
opt	0 to 1	House Number	Where a value is optional ( <b>opt</b> ) and either no value, or a single value can be returned
optM	0 to Many	Unmetered Type Code	Where a value is optional ( <b>optM</b> ) and either no value, or many values can be returned

- Metadata will be provided at a later stage.
- Further confirmation has been provided in the MS Excel with respect to MPRNs with a Status of A and the provision of Smart Data Services.

### Key Considerations:

There are some key considerations which ESBN would like to highlight to Market Participants, and on which further engagement will be required over the course of the implementation of this MCR.

- Legal Agreements must be agreed between ESBN and Market Participants who intend to avail of this web service.
- A fair usage policy will be implemented.
- Integrity and performance of the Central Market Systems (CMS) will be continuously monitored through every phase of the delivery of this MCR and the enduring solution.
- Market Participants use of the end solution should not negatively impact on the performance or security of the CMS.
- ESBN will engage with Market Participants to confirm their planned utilisation of the web service.

Classification of Request							
Co-Ordinated Baseline Impacting			Co-Ordinated Baseline Version No.				
NI Specific		RoI Specific	X	Operational		Date of Transfer from ReMCoWG	12/06/2013
Scope of Request							
Design Documentation	Business Process	Market & MP Systems	Market Gateway (Hub)	MPCC/ EMMA	Schema	Web Forms	Extranet
						X	X
Co-Ordinated Baseline Documents impacted by Request							
Market Messages:	No impact						
Data Definitions:	No impact						
Data Codes:	No impact						
RoI MM Guide:	No impact						
NI MM Guide:	No impact						
Harm. Impact (RoI):	No impact						
Comment:							

<b>MCR</b>	<b>1135</b>	<b>MPRN Enquiry web service</b>	<i>Priority</i>
			<b>High</b>

Jurisdictional Market Design Baseline Documents impacted by Request	
<b>Market Process Diagrams (MPDs):</b>	No impact
<b>Guidance Documentation</b>	No impact
<b>Briefing Documents:</b>	MPRN Enquiry Web Service Guide
<b>User and Technical Documents:</b>	No impact
<b>Comment:</b>	

PART 2 MARKET ASSURANCE:					
<b>Applicability</b>	DSO	Suppliers	TSO	SEMO	Generators
		<b>X</b>			
<b>Scope of Test</b>	Business Solution Assessment	Integration Test Assessment	Data Transfer Testing	IPT	Other (specify)

PART 3 RECOMMENDATION						
<b>Recommended by</b>		<b>CDA</b>		<b>IGG</b>		<b>HWG</b>
<b>ACCEPTANCE (Date)</b>	<b>REJECTION (Date)</b>	<b>NO RECOMMENDATION</b>	<b>COMMENT</b>			
<b>Reason for Recommendation</b>						