

ESB Networks / RMDS
Harmonisation Programme
Harmonised Base Line (HBL) V2.3

Consolidated Documentation of RoI Impacts

Document Version 2.3

Document Control

Version	Reason	Date
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1.2	Harmonised Baseline Version 1.3 (internal)	1 Jun 2011
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2.1	Harmonisation Baseline Version 2.1	25 Aug 2011
2.2	Harmonisation Baseline Version 2.2	20 Dec 2011
2.3	Harmonisation Baseline Version 2.3	22 Feb 2012

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1 Introduction

1.1 Background

Since the Single Electricity Market (SEM) came into effect on the 1st November 2007 introducing a single wholesale market for electricity on the island of Ireland, the Commission for Energy Regulation (CER) and the Northern Ireland Authority for Utility Regulation (NIAUR), together the Regulatory Authorities (RAs) have implemented a number of measures to promote competition with the retail markets across the island. The RAs agreed that harmonisation of the retail markets will further the common objectives of encouraging competition in supply markets and improving quality of service to all customers.

In this context the RAs agreed to undertake a project on harmonisation of operational procedures within the electricity retail markets. This project is known as the Retail Market Harmonisation Project ("Harmonisation Project" (HP)), and in its first stage will define a set of harmonised market messages and associated Supplier facing processes.

In September 2009, the RAs requested that ESB and NIE progress the first stage of the HP, presenting a series of proposals for consideration and discussion by the Suppliers operating in Ireland. Consideration and discussion was facilitated through the formation of a Harmonisation Working Group operating under oversight from a Harmonisation Steering Group (HSG).

1.2 Purpose of Document

This document is the revised detail for a Market Change Request MCR1002 originally issued by the RMDS and ESB Networks to describe the changes to the Retail Market in the Republic of Ireland that are proposed as a result of the agreements and decisions of the Harmonisation Working Group.

The affected areas are Market Messages, Data Items, Data Definitions and Data Codes. All changes are documented in the body of the document. All related details files are included.

1.3 Change Control

The baseline for the changes described in version 1 of MCR1002 are ROI Market Design version 8 and the 131 market message from MCR0171. The original MCR1002 was approved at IGG in June 2010 (by CER on 6 October 2010) and established an agreed set of Core Elements (Data Definitions and associated Data Codes and Market Messages) and ROI-specific derivatives (ROI Message Guides and ROI Impact Document).

Since then, a set of baseline-impacting MCRs and Code Change Requests has been approved by the Market. Also, the original content of MCR1002 has been divided: the Core Elements are now in MCR1079 and the ROI-derivatives continue to be contained in MCR1002. The current version of MCR1002 has been re-published to reflect the effect of the approved changes on the ROI-specific components (only).

Approval of the core elements is the remit of the HWG and HSG forums (see MCR1079) and MCR1002 has a dependency on that approval. The NI-specific components will be published separately and will be progressed through the SIG forum.

The table below summarises all of the MCRs and Code Change Requests approved since HBL V2.1 and that impact on the Core and/or ROI-specific components of the baseline:

HRDS - Harmonisation Retail Design Services - HBL V2.3

Summary of Changes since HBL V2.2, their impacts and approval status					HBL Core Elements		HBL Derivative Elements					
CR Name (and hyperlink)	Ver	Org. Jur.	Class-ification	Request Description	MM	Defs & Codes	ROI MM Guides	NI MM Guides	ROI Impact	HWG Position	Date of HWG	HSG Position
MCR1115	V2.0	NI	Harmonisation	Sundry Code Changes	No	Yes	No	Yes	Yes	Approved	22/02/2012	Approved
MCR1116	V2.0	NI	NI-specific	Updates to Enduring Solution NI Market Documentation	No	No	No	Yes	No	N/A	N/A	N/A
ESBN CR357	V1.0	ROI	ROI-specific	Change inbound validation on M030	No	No	Yes	No	No	N/A	N/A	N/A

Note: CR357 is an internal Networks CR but impacts on the ROI Meter Works Market Message Guide. Details of the impact are included in that Guide in the validation section for the 030 Market Message.

1.4 Document Version Numbers

The versions of the individual components in this version of the HBL are listed in the table below. Although not all documents in this version of the HBL have materially changed, all documents have had their version numbers advanced to reflect their membership of the current HBL. Those documents that have not materially changed since the previous HBL are noted. The effective date of all documents in this HBL is that on which the HWG recommended the HBL for approval.

HBL Component	Version No. in this HBL Version	Nature of Component	Data Item Naming Convention Used
Data Defs and Codes		Core	Business and Schema Name
	2.3 (22 Feb 2012)		
Market Messages	2.3 (22 Feb 2012, but no material change since last HBL)	Core	Schema Name
ROI Market Message Guides			Business Name
Common Data Segments	2.3 (22 Feb 2012, but no material change since last HBL)	ROI-specific	
Customer and Data Agreements	2.3 (22 Feb 2012)	ROI-specific	
Data Aggregation	2.3 (22 Feb 2012)	ROI-specific	
Data Processing	2.3 (22 Feb 2012)	ROI-specific	
DUoS and Transaction Payments	2.3 (22 Feb 2012, but no material change since last HBL)	ROI-specific	
Market Gateway Activity	2.3 (22 Feb 2012, but no material change since last HBL)	ROI-specific	
Meter Registration	2.3 (22 Feb 2012)	ROI-specific	
Meter works	2.3 (22 Feb 2012)	ROI-specific	
SSA	2.3 (22 Feb 2012, but no material change since last HBL)	ROI-specific	
Unmetered	2.3 (22 Feb 2012)	ROI-specific	
ROI Impact Column Update	2.3 (22 Feb 2012)	ROI-specific	
ROI Impact Document (this document)	2.3 (22 Feb 2012)	ROI-specific	Business and Schema Name

1.5 Scope of Market Change Request

The scope of this Market Change Request includes changes to:

- Market Messages
- Data Items
- Data Definitions
- Data Codes

Harmonised Market Message Guides applicable to RoI Market Operations are included for reference.

The scope of this Market Change Request excludes:

Within the current stage of the Retail Market Harmonisation Project it has been agreed to exclude from consideration a number of elements of the retail electricity market that are specific to each jurisdiction such as:

- Metering configurations, including interval, SToD, token and keypad metering
- The DUoS tariff, structure and associated invoicing and payment processes
- The management of unmetered supplies
- Meter reading cycles
- Fieldwork (or meter works) time lines and service levels
- Existing Retail Market Procedures in RoI (MPDs)

1.6 Re-Introduction of ROI Impact Column

The two jurisdictional impact columns in the Market Message spreadsheet in HBL V2.1 were stood down in HBL V2.2 as per discussions at the HWG. Subsequently, HRDS has re-introduced the ROI impact column contents but with some caveats:

- this column will now appear only in the ROI impact document (this document) and not along side the corresponding NI impact details as per the original HBL design
- the re-introduced column will stand in a separate, dedicated Impact spreadsheet (embedded below) which should be consulted only for ROI-impact-related issues
- the spreadsheet contains only the minimum of information needed for impact analysis and all other non-impact information has been removed. The definitive Message and Data Item definitions are maintained only in the permanent HBL files V2.3 and in all subsequent releases
- No changes other than impact-related ones have been applied to the message structures or data item definitions in the Impact spreadsheet since HBL V2.1 as the Impact file is transient and will be dropped at go-live of the Harmonised framework in ROI
- Finally, impact-related updates will be made to the Impact spreadsheet for all subsequent HBL releases until the go-live of the Harmonised framework in the ROI.



ROI Impact Column
Update v2.3.xls

1.7 Summary

The following is a summary of the changes, details are documented below:

- There will be 91 Market Messages in the Harmonised Schema (Section 2)
- Addition of 2 market messages (Section 2)
- Removal of 9 redundant market messages (Section 2)
- 7 market messages have no changes (MM 115, MM 507, MM 507C, MM 597, MM 602, MM 999, MM 601)
- Several market messages have message name and schema name changes (Section 2)
- 2 market messages were planned to have only changes to the schema name to correct original typographic errors but these changes have not, in fact, taken place. (See Section 3.2)
- Many data items are new, removed or changed in the schema (Section 4)
- New data definitions (Section 5)
- The codified values for many schema data items are being changed (Section 6)
- The codes for some non-schema data items are being changed (Section 6)
- New codified data items are being added to the schema (Section 6)

2 List of all 91 Market Messages in the Harmonised Schema

There will be 91 messages in the Harmonised Retail Market Message catalogue.

New and removed messages are listed in Tables 1 and 2 respectively and these changes are reflected in the complete list of messages in Table 3.

2 New Market Messages

Message No.	Message Name
140	Change of Tenancy History
131	Works Status (from MCR0171)

Table 1

6 Removed Market Messages

Message No.	Message Name
003	New Generation Unit
007	Generation Unit Trading Acceptance
102N	Change of Supplier Default Registration Notification
501	Estimated Aggregated Supplier Non Interval Consumption (new Harmonised name)
504	Embedded Generation – DNGG (new Harmonised name)
505	Aggregated Supplier Interval Consumption (new Harmonised name)
501S	Re-Aggregated Estimate Aggregated NQH Supplier Consumption - DNGP
504S	Re-Aggregated Embedded Generation - DNGG
505S	Re-Aggregated Aggregated Supplier QH Consumption - DNEC & DNGC

Table 2

Messages **003, 007 and 102N:**

003 and 007 were superseded by SEM. MM 102N is not required for the SOLR. There will never be a resend of any of these messages through the market hub.

Messages **501s, 504s and 505s** are pre-SEM Reaggregation messages and will be removed from the harmonised schema as they are no longer needed – these would be resent via CD if ever needed, Working Practice 0011 refers.

Messages **501, 504 and 505** are pre-SEM Reaggregation messages and will be removed from the harmonised schema as they are no longer needed – these will not be resent.

Table 3 : List of all 91 Market Messages in the harmonised schema :

Table 3

Please note that the original Table 3 in this document has been replaced with the one below. This replacement table reflects the set of harmonised Message Names now being adopted for use in the HBL. Where there are differences from the original Message Names, these are highlighted below for convenience.

Msg ID	Message Name in ROI Impact document V2.1 and previous versions	Message Name now being adopted in HBL V2.2 and subsequent versions	Difference in ROI Impact document and Adopted Name?
010	Registration Request	Registration Request	
011	Cancel Registration Request	Cancel Registration Request	
011A	Cancel Change of Supplier	Cancel Change of Supplier	

	Agreement	Agreement	
012	Change of Supplier Objection	Objection to Change of Supplier	Difference
012W	Change of Supplier Objection Withdrawal	Withdrawal of Objection to Change of Supplier	Difference
013	Customer Details Change	Customer Details Change	
014R	Customer Details Change Rejection	Customer Details Rejection	Difference
015	SSAC and/or Supplier Unit Change Request	Change of SSAC and or SupplierUnit	Difference
016	Legal Entity Change	Change Of Legal Entity	Difference
017	Meter Point Status Change Request	Meter Point Status Change Request	
021	De-Registration Request	DeRegistration Request	Difference
030	Meter Works Request	MeterWorks Request	Difference
101	New Connection Registration Acceptance	New Connection Registration Acceptance	
101P	New Connection Provisional Acceptance	New Connection Provisional Acceptance	
101R	New Connection Registration Rejection	New Registration Rejection	Difference
102	Change of Supplier Registration Acceptance	Change of Supply Registration Acceptance	Difference
102P	Change of Supplier Provisional Acceptance	Change of Supplier Provisional Acceptance	
102R	Change of Supplier Registration Rejection	Change of Supplier Registration Rejection	
105	Change of Supplier Confirmation	Change of Supplier Confirmation	
105L	Change of Supplier Confirmation of Customer Loss	Change Of Supplier Confirmation Customer Loss	Difference
106D	Meter Point Status Confirmation - De-Energisation	Meter Point Status Confirmation DeEnergisation	Difference
106E	Meter Point Status Confirmation – Energisation	Meter Point Status Confirmation Energisation	Difference
110	Notification of Old Supplier to CoS	Notification to Old Supplier of CoS	Difference
111	Registration Cancellation	Registration Cancellation	
111A	Change of Supplier Cancellation Notification	Change of Supplier Cancellation Notification	
111L	Registration Cancellation - Cancellation of Customer Loss	Registration Cancellation Customer Loss	Difference
111R	Change of Supplier Cancellation Rejection	Change of Supplier Cancellation Rejection	
112	Notification of Objection	Notification of Objection	
112R	Notification of Objection Rejection	Notification of Objection Rejection	
112W	Withdrawal of Objection	Withdrawal of Objection	
114	Change of Customer Details Confirmation	Change of Customer Details Confirmation	
115	Change of SSAC and/or Supplier Unit Confirmation	Change of SSAC and or SupplierUnit Confirmation	Difference
115R	Change of SSAC and/or Supplier Unit Rejection	Change of SSAC and or SupplierUnit Rejection	Difference
116	Change of Legal Entity	CoLE Confirmation	Difference

	Confirmation		
116A	Change of Legal Entity Confirmation to TSO	Change Of Legal Entity Confirmation	Difference
116N	Change of Legal Entity Notification to Supplier with Pending Registration	CoLE Notification	Difference
116R	Change of Legal Entity Rejection	CoLE Rejection	Difference
117D	Change in Energisation Status – Delay	Change In Energisation Status Delay	Difference
117R	Meter Point Status Request Rejection	Meter Point Status Request Rejection	
122	De-Registration Confirmation	DeRegistration Confirmation	Difference
122R	De-Registration Rejection	DeRegistration Rejection	Difference
130D	Meter Works Request Delayed	MeterWorks Request Delayed	Difference
130R	Meter Works Request Rejected	MeterWorks Request Rejection	Difference
131	Works Status (from MCR0171)	Work Status	Difference
137R	Rejection of Appointment	Rejection Of Appointment	
140	Change of Tenancy History	Change Of Tenancy History	
208	Replacement Reading	Replacement Reading	
210	Supplier Provided Reading	Supplier Provided Reading	
252	Request for Special Reading	Request for Special Reading	
260	Observation of Problem, Damage or Tampering	Observation of Problem Damage or Tampering	Difference
261	Resolution of Problem, Damage or Tampering	Resolution of Problem Damage or Tampering	Difference
300	Validated Non Interval Readings – Scheduled	Validated Non Interval Readings Scheduled	Difference
300S	Validated Non Interval Readings – Special	Validated Non Interval Readings Special	Difference
300W	Withdrawn Non Interval Readings	Withdrawn Non Interval Readings	
301	Meter Point Characteristics	Meter Point Characteristics	
301N	Proposed Meter Point Characteristics	Proposed Meter Point Characteristics	
303R	Customer Read Rejection	Customer Read Rejection	
305	Non Settlement Estimates	Non Settlement Estimates	
306	Meter Point Status Change Confirmation - De-Energisation	Meter Point Status Change Confirmation DeEnergisation	Difference
306W	Meter Point Status Change Withdrawn - De-Energisation	Meter Point status Change Deenergisation Withdrawn Read	Difference
307	Meter Point Status Change Confirmation – Energisation	Meter Point Status Change Confirmation Energisation	Difference
307W	Meter Point Status Change Withdrawn – Energisation	Meter Point Status Change Energisation Withdrawn Read	Difference
308	Non Interval Load Factor Reading Exception	Non Interval Load Factor Reading Exception	
310	Validated Change of Supplier Reading	Validated CoS Reading	Difference
310W	Withdrawn Change of	Withdrawn CoS Reading	Difference

	Supplier Reading		
311	Meter Problems	Meter Problems	
320	Validated Change of Supplier Reading	Validated CoS Reading	Difference
320W	Withdrawn Change of Supplier Reading	Withdrawn CoS Reading	Difference
321	Read Cycle Notification	Read Cycle Notification	
330	Notification to ESB NG of Transfer from Non Interval to Interval	Non Interval To Interval Change	Difference
331	Interval Meter Technical Details	Interval Meter Technical Details	
332	Non Interval Meter Technical Details	Non Interval Technical Meter Details	Difference
332W	Non Interval Meter Technical Details - Withdrawn Read	Withdrawn Read Non Interval Meter Technical Details	Difference
341	Import Interval Meter Daily Readings	Import Interval Meter Daily Readings	
342	Export Interval Meter Daily Readings	Export Interval Meter Daily Readings	
352R	Special Reading Request Rejection	Special Reading Request Rejection	
507	Designated DUoS Payment Disputes	Designated DUoS Payment Dispute	Difference
507C	Designated DUoS Payment Disputes Control	Designated DUoS Payment Dispute Control	Difference
591	Non Interval Aggregated Data	Non Interval Aggregation	Difference
594	Interval Export Aggregated Data	Part GU Aggregation	Difference
595	Interval Import Aggregated Data	Interval Import Aggregation	Difference
596	Supplier Copy of SMO Aggregated Data	Supplier Copy SMO	Difference
597	Generator Copy of SMO Aggregated Data	Generator Copy SMO	Difference
598	Non-Participant Generator Copy of SMO Aggregated Data	Non Part GU Aggregation	Difference
601	Rejection of Invalid Messages	Rejection To Invalid Message	Difference
602	Daily Summary Reconciliation	Daily Summary Reconciliation Count	Difference
700	Unmetered Characteristics	Unmetered Characteristics	
700W	Unmetered Characteristics Withdrawal	Unmetered Characteristics Withdrawal	
701	Unmetered Consumption	Unmetered Consumption	
701W	Unmetered Consumption Withdrawal	Unmetered Consumption Withdrawal	
999	Test Document	Test Document	

- Please note that the 3 technical messages viz **601**, **602** and **999** are not in the spreadsheets included in Section 4.

- The SEM Aggregation message **590** message is not in the RoI Retail Market schema and so is not in the Harmonisation version. Please note the 590 MM is part of the Wholesale Market schema and not the Retail Market schema.

For completeness, the Harmonised Market Message Guide - SSA documents the 501, 504, 505, 501S, 504S,505S pre-SEM aggregation messages, and the Harmonised Market Message Guide - Data Aggregation documents the 590.

3 Message Name Changes

3.1 Message name and Schema changes – 13 Messages

References to QH and NQH have been changed to Interval and Non-Interval respectively.

Table 4

Message No.	New Schema Name
300	ValidatedNonIntervalReadingsScheduled
300S	ValidatedNonIntervalReadingsSpecial
300W	WithdrawnNonIntervalReadings
308	NonIntervalLoadFactorReadingException
330	NonIntervalToIntervalChange
331	IntervalMeterTechnicalDetails
332	NonIntervalTechnicalMeterDetails
332W	WithdrawnReadNonIntervalMeterTechnicalDetails
341	ImportIntervalMeterDailyReadings
342	ExportIntervalMeterDailyReadings
591	NonIntervalAggregation
594	PartGUAggregation
595	IntervalImportAggregation

3.2 Schema-only changes

The following messages in Table 5 were planned to be renamed in the harmonised schema to correct errors in text. These changes have not, in fact, been made and the schema names will remain unchanged in the Harmonised schema.

Table 5

Message No.	Proposed New Schema name (but not implemented)	Proposed Changed from (but Harmonised schema will retain textual errors)
598	NonPartGUAggregation	MIM598_NonPatGUAggregation
301N	ProposedMeterPointCharacteristics	MIM301N_ProposedMeterPointCharacteristicsChangeofLegalEntity

4 Data Item changes

The nature of the changes include the following examples:

- Remove pattern values
- Change to field length
- Change field optionality
- Segment added or deleted
- Field name changes
- Fields added or deleted
- Max occurrences of existing fields changed
- Data code changes (refer to Section 6)

Table 6 below is a summary of all data item changes. Details of each are contained in Data Definitions and Codes.

Table 6

Field	Segment	Message
AccessArrangements	Top Level	010
ActualUsageFactor	UsageFactors	332W
AddrLine1	MeterPointAddress, NotificationAddress	140
AddrLine2	MeterPointAddress, NotificationAddress	140
AddrLine4	MeterPointAddress, NotificationAddress	140
AddrLine5	MeterPointAddress, NotificationAddress	140
AppointmentDate	Top Level	137R
AppointmentID	Top Level	010, 017, 030, 131, 137R, 252
AppointmentRejectionReason	Top Level	137R

Field	Segment	Message
AppointmentTimeSlot	Top Level	137R
CancellationReasonCode	Top Level	011, 111, 111A, 111L, 111R
ChangeOfUsageCode	Top Level	013, 016
City	MeterPointAddress, NotificationAddress, PostBox	140
Comments	Top Level	106D, 106E
COName	NotificationAddress	140
ConnectionSystemCode	Top Level	101, 101P, 102, 102P, 105, 330, 301, 301N
CountyIreland	MeterPointAddress NotificationAddress TechnicalContact	010, 013, 012, 012W, 014R, 016, 017, 021, 101, 101P, 101R, 102, 102P, 102R, 105, 105L, 110, 112, 112R, 112W, 114, 116A, 140, 301, 301N, 330, 700, 700W
CountyState	NotificationAddress	140
Country	MeterPointAddress, NotificationAddress, PostBox	140
CurrentChangeableServiceCapacity	Top Level	105, 301
CSCStartDate	Top Level	301
CSC5YrEndDate	Top Level	301
CustomerServiceDetailsCode (now can occur multiple times on all records where it features)	Top Level	010, 013, 016, 017, 101, 105
DebtTransferFlag	Top Level	010, 110
DelayReasonCode	DelayDetails	117D, 130D
DeleteMeterReaderPassword	Top Level	013
DeRegistrationReasonCode	Top Level	021, 122, 122R
DUOS_Group	Top Level	101, 101P, 102, 102P, 105, 114, 116, 116A, 116N, 300, 330, 300S, 300W, 301, 301N, 305, 305, 306, 306W, 307, 307W, 310, 310W, 320, 320W, 331, 332, 332W, 700, 700W, 701, 701W
EAI_Code	Top Level	010, 013, 016, 017, 116, 116A, 116N,

Field	Segment	Message
EffectiveFromDate	Top Level, UsageFactors	101P, 111, 111L, 114, 332W
Email	CustomerContactDetails, PartyContactDetails, TechnicalContact	010, 011, 011A, 012, 012W, 013, 015, 016, 017, 021, 030, 101, 101P, 102, 102P, 105, 112, 112W, 116, 116A, 116N, 140, 208, 210, 252, 260, 261, 303R, 311
EstimatedUsageFactor	Top Level	106E, 301, 301N
EstimatedUsageFactor	UsageFactors	332W
Extn	CustomerContactDetails	140
FirstName	Customer Name	140
GenerationUnitAggregationCode	Top Level	010, 101, 101P, 101R, 102, 102P, 102R, 105
GenerationUnitID	Top Level	101, 101P, 101R, 102, 102P, 102R, 105, 341
GeneratorMPID	Top Level	341
HouseNo	MeterPointAddress, NotificationAddress	140
IntervalStatusCode (renamed from QHIntervalStatusCode)	IntervallInfo	341, 342
IntervalValue	IntervallInfo	341, 342
KeypadPremiseNumber	Top Level	101, 105, 320, 320W, 332, 332W
LastName	Customer Name	140
LoadProfileCode	AdditionalAggregationInformation, Top Level	101, 101P, 102, 102P, 114, 300, 300S, 300W, 301, 301N, 306, 306W, 307, 307W, 310, 310W, 320, 320W, 332W, 332, 591, 700, 700W, 701, 701W
MaximumImportCapacity	Top Level	101
MedicalEquipmentDetailsCode	Top Level	101, 105, 017, 013, 016, 010
MeterCategoryCode	AvailableMeterID, MeterID, NewMeterRegisters, RemovedMeterRegisters, RetainedMeterRegisters	010, 016, 208, 210, 261, 260, 300, 300S, 300W, 303R, 305, 306, 306W, 307, 307W, 310, 310W, 311, 320, 320W, 331, 332, 332W, 341, 342
MeterConfigurationCode	Top Level	010, 030, 101, 101P, 102, 102P, 102R, 105, 320W, 332W, 301, 301N,

Field	Segment	Message
		331, 332, 700, 700W, 701, 701W,
MeterLocationCode	NewMeterRegisters, MeterID	320W, 320, 331, 332
MeterPointStatusCode	Top Level	101, 101P, 102, 102P, 105, 106D, 106E, 300, 300S, 300W, 305, 306, 306W, 307, 307W, 308, 310, 320, 330, 310W, 320W, 332W, 331, 332, 700, 700W, 701, 701W
MeterPointStatusReasonCode	Top Level	017
MeterReaderPassword	Top Level	010, 013, 016
MeterReaderRemarkCode	MeterReaderRemarks	300, 305,
MeterReaderRemarks	MeterReaderRemarks	300, 305
MeterWorksTypeCode	Top Level	030, 010
MICStartDate	Top Level	105, 301
MPBusinessReference	Top Level	137R, 311
MPRN	Top Level	140
NetActiveDemandValue	IntervallInfo	341, 342
NetworksReferenceNumber	Top Level	331
NoReadCode	Top Level	305
Number	CustomerContactDetails	140
ObjectionReasonCode	Top Level	012, 012W, 112, 112R, 112W
ObservationCode	Top Level	260, 261, 311
OldKeypadPremiseNumber	Top Level	105L, 110
OrganisationOne	Customer Name	140
OrganisationTwo	Customer Name	140
PercntMPRNEst	Top Level	595
POBoxNumber	PostBox	140
PrepaymentType	Top Level	010, 030
PreviousAccountNumber	ChangeOfTenancyHistory	010, 016, 140
PreviousAddress	ChangeOfTenancyHistory	010, 016, 140
PreviousMPRN	ChangeOfTenancyHistory	010, 016, 140

Field	Segment	Message
PreviousSupplier	ChangeOfTenancyHistory	010, 016, 140
ProvAccCompletionRequirement Code	CompletionRequirementDetails	101P, 102P
ReadFrequencyCode	ReadScheduleDetails, Top Level	101, 101P, 102, 102P, 105, 321
ReadReasonCode	Top Level, MeterID, NewMeterRegisters, RemovedMeterRegisters, RetainedMeterRegisters	102, 102P, 208, 210, 252, 300, 300S, 300W, 303R, 305, 306, 306W, 307, 307W, 308, 310, 310W, 320, 320W, 332, 332W, 352R
ReadStatusCode	Meter ID, RetainedMeterRegisters	300, 300S, 300W, 306, 306W, 307, 307W, 310, 310W, 320, 332, 332W
ReadTypeCode	MeterID, NewMeterRegisters, RemovedMeterRegisters, RetainedMeterRegisters, Top Level	016, 208, 210, 252, 300, 300S, 300W, 305, 306W, 307W, 310W, 303R, 306, 307, 310, 320, 320W, 332, 332W, 352R
RegisteredCompanyNumber	Customer Name	140
RegisterTypeCode	AvailableMeterID, Channel Info, MeterID, NewMeterRegisters, RemovedMeterRegisters, RetainedMeterRegisters,	016, 208, 210, 300W, 300, 300S, 303R, 305, 306, 306W, 307, 307W, 310, 310W, 320, 320W, 332, 331, 341, 342
RegistrationMeterConfigurationCode	Top Level	102, 102P
RejectReasonCode	RejectionDetails	014R, 101R, 102R, 111R, 112R, 115R, 116R, 117R, 130R, 352R, 303R
RequestStatusCode	Top Level	030, 012, 012W, 017, 021, 112, 112R, 112W, 117D, 117R, 130D, 130R, 252, 352R
RequiredDate	Top Level	110, 352R
SecurityAnswer	Top Level	010
SecurityQuestion	Top Level	010
SerialNumber	MeterID	208, 210
SettlementClassCode	Top Level	101, 101P, 102, 102P, 105
Street	MeterPointAddress, NotificationAddress	140
SupplierMPID	Top Level	010, 011, 011A, 012, 012W, 013, 014R, 015, 016, 017, 021, 030, 591,

Field	Segment	Message
		595, 101, 101P, 105, 105L, 111, 111L, 112, 112W, 114, 116, 116A, 116N, 140, 252, 260, 352R, 208, 210, 303R, 330
SupplierMPIDOld	Top Level	105
SupplyAgreementFlag	Top Level	030
TariffConfigurationCode	Top Level	010, 017, 030, 332
TimeslotCode	AvailableMeterID, MeterID, NewMeterRegisters, RemovedMeterRegisters, RetainedMeterRegisters, UsageFactors	010, 016, 208, 210, 300, 300S, 300W, 303R, 306W, 307W, 310W, 305, 306, 307, 310, 320, 320W, 332, 332W
Title	CustomerName	010, 012, 012W, 013, 014R, 016, 017, 021, 101, 101P, 101R, 102, 102P, 102R, 105, 112, 112R, 112W, 114, 116A, 140, 330
BillingStartDate	Top Level	700, 700W, 701, 701W
BillingEndDate	Top Level	700, 700W, 701, 701W
TradingAs	Customer Name	140
TransactionReasonCode	Top Level	700, 700W, 701, 701W
UnitNo	Top Level, NotificationAddress	140
UnmeteredDetails	Top Level	101, 101P, 102 102P, 105, 301, 301N
UnmeteredTypeCode	ConsumptionDetail	700, 700W, 701, 701W
LongTermVacantIndicatorFlag	Top Level	013, 114
VC Attribute Deleted	Top Level	102
WithdrawalReasonCode	Top Level	300W , 306W, 307W, 310W, 320W, 332W, 700w, 701W
WorkTypeCode	Top Level	131

5 Data Definition changes

This is the full list of Harmonised Data Definitions.

Table 7 below sets out the **new** NI Data Definitions which will be added to the Harmonised Schema.

Table 7

Data Item	Business Data Definition
Appointment ID	A unique ID associated with an appointment booked by a Supplier on the appointments website.
Current Chargeable Service Capacity	This is based on the highest maximum demand recorded during either the present or the last financial year. If the present CSC is exceeded, the new higher figure will apply.
CSC Start Date	This is the date when the current Chargeable Service Capacity (CSC) started
CSC5YrEndDate	This field defines the end date of the Chargeable Service Capacity 5 Year Agreement.
Debt Transfer Flag	A flag set to True that indicates that for a Residential customer registration the Supplier has agreed to accept outstanding customer debt from the Old Supplier
Keypad Premises Number	The new Keypad Premise Number provided for keypad metered Non-Interval Meter Points. A number used to uniquely identify a Keypad meter at a premise.
Meter Reader Password	The password that a meter reader will provide if requested by a customer when visiting a site to collect meter readings.
Meter Reader Remarks	A free-text comment associated with a Meter Reader Remark Code. This can be used by meter readers to provide additional information on a site-specific issue.
Meter Reader Remark Code	A code used by meter readers to indicate why a meter could not be read or to capture issues that may require follow-up action , or to detail information that may be useful to a Supplier..
MIC Start Date	The start date from which a MIC applies.

Data Item	Business Data Definition
Prepayment Type	A code to indicate the Prepayment Type to be installed when a prepayment facility is requested by a Supplier.
Previous Account Num	The customer account number that the customer has with the previous Supplier. Used in Change of Tenancy History segment in 010 and in 140 - Change of Tenancy History.
Previous Address	The address at which the customer was supplied by the previous Supplier. Used in Change of Tenancy History segment in 010 and in 140 - Change of Tenancy History.
Previous MPRN	The MPRN of the site at which the customer was supplied by the previous Supplier. Used in Change of Tenancy History segment in 010 and in 140 - Change of Tenancy History.
Previous Supplier	The code identifying the previous Supplier of the customer. Used in Change of Tenancy History segment in 010 and in 140 - Change of Tenancy History.
Security Question	The answer to the security question to be provided by the customer to NIE when validating the identity of a key-pad customer.
Security Answer	A code to indicate the security question to be used by NIE when validating the identity of a keypad customer.
Supplier MPID Old	A code identifying the Old Supplier to the new supplier in the confirmation of a Change of Supplier to support Debt management process in NI.
Tariff Configuration Code	A code to indicate the retail tariff required by the Supplier for a key-pad metered Meter Point.
Long Term Vacant Indicator	This field can be used by a Supplier to indicate that the site is Long-Term Vacant.

In addition, the following existing data item descriptions have been changed in the way described:

Table 7A

Data Item	Existing Definition	Change made
Amount Disputed Total	This is the total gross amount (i.e. inclusive of VAT) being disputed for a given DUoS/Transaction Invoice. Euros.	Removed Euros.

Cancellation Reason	A code to indicate why a supplier wishes to cancel a change of supply for the Retail Market	Changed text to: "A code to indicate why a supplier wishes to cancel a New Registration or Change of Supplier transaction for the Retail Market"
Change of Usage Flag	This is a flag to denote whether or not a change of usage has taken place i.e. whether the customer has moved from Domestic to Commercial or Commercial to Domestic.	Deleted from "i.e....." onwards
Change of Usage	Change of Usage Type is a code provided by the Supplier to indicate the new usage type in the case of a potential change of usage from Domestic to Commercial or vice versa.	Deleted from "from...." onwards
Comments	Comments made by NIE for the attention of the Supplier	Deleted words "by NIE"
Customer Service Special Needs Details	A code indicating the type of special requirement that a customer has.	Replaced the word "requirement" with the word "needs"
DLF (Distribution Loss Factor) Code	DLF Code is a code associated with a value of Distribution Loss factor (DLF). DLF is the average multiplier by which consumption at the customer meter must be multiplied to approximate to the corresponding energy crossing the Grid/Distribution boundary. It may vary according to time of day. The values for each voltage level are calculated by ESNB and approved by CER over a year.	Deleted last 2 sentences.
Estimated Usage Factor	See Message Specific Information	Estimated Usage Factor is a statement in kWh of the estimated consumption for a given Timeslot at a Meter Point over the next year

Generation Unit ID	This is the date from which the billing is calculated. This would be the beginning of the month or, if the site was registered mid month, the date on which the registration took effect.	Under SEM, the Generation Unit ID message field is a multiple-purpose message field which carries the 9-character SEM Participant Generator Unit ID (in the format GU_nnnnnn), or the 4-character Non-Participant Generator Export Arrangement ID, or the pre-SEM 3-character Participant Generation Unit ID, depending on context.
Keypad Premises Number	The new Keypad Premise Number provided for keypad metered NHH Meter Points. A number used to uniquely identify a Keypad meter at a premise. This has several components:- 6 digits unique to the supplier 2 digits relating to the scheme – (keypad) 2 digits relating to the keypad meter provider – (Secure Meters) 8 digits relating to the meter point address 1 single check digit	Deleted last sentence. Changed NHH to Non-Interval

Load Factor	A code that defines the pattern of demand and so affects the load profile allocated to a Maximum Demand Meter Point. The code will not be present for Interval or non-Maximum Demand Meter Points. Specifies a percentage range. Using a year as the designated per	Replaced definition with full text (previous was truncated). Text now reads: "A code that defines the pattern of demand and so affects the load profile allocated to a Maximum Demand Meter Point. The code will not be present for QH or non-Maximum Demand Meter Points. Specifies a percentage range. Using a year as the designated period, the load factor is calculated by dividing the kilowatt-hours delivered during the year by the peak load for the year times the total number of hours during the year."
Long Term Vacant Indicator	This field can be used by a Supplier to indicate that the site is Long-Term Vacant. A Supplier should only use this indicator following receipt of two consecutive meter reader codes (64/65) received on market message 305	Deleted last sentence.
Maximum Export Capacity	Maximum Export Capacity is the capacity in kVA agreed in the connection agreement and permitted to be exported at a meter point. This item will only be changed where increased / decreased connections are proposed by the Customer via Networks which change the MEC at a meter point.	Deleted last sentence.

Maximum Import Capacity	Maximum Import Capacity is the capacity in kVA agreed in the connection agreement and permitted to be imported at a meter point. This item will only be changed where increased / decreased connections are proposed by the Customer via Networks.	Deleted last sentence.
Meter Configuration Code (Required)	The Meter Configuration Code (Required) is a code on a message from the MRSO to the supplier to indicate the functionality required by the Supplier to be delivered by the combination of registers physically installed at a meter point. It does not describe the technical attributes of the meter(s).	Words "from the MRSO" removed.
Meter Point Status	A code to identify the requested connection status of a meter point. Meter Point status should be consistent with the Meter Point Status Reason	Deleted last sentence.
MPRN	The unique identifying reference for the Meter Point. All elements of the MPRN must be provided.	Deleted last sentence.
Networks Reference Number	A Non-Interval billing document reference created at inception of the Non-Interval billing document in Networks and used to reference that Non-Interval billing transaction.	Deleted words "in Networks"
Original Transaction Reference Number	This is the Transaction Reference Number of the message that is the subject of a rejection message. This is populated when the original message had a Transaction Reference Number provided in the header and it could be read.	Deleted last sentence. Included "original" in first sentence.
Outcome Reason	This is a code indicating the outcome reason of the original request. Please note that this field is not populated where the Order Status is 'WCCH' or 'WCNC'	Deleted last sentence.
Read Frequency	Read Frequency is a code that indicates the frequency of meter reading for the meter point, typically bi-monthly.	Removed words "typically bi-monthly"
Registration Receipt Date	Registration Receipt Date is the date on which MRSO receives a Supplier registration for a retail market MPRN.	Add "/NIE" after "MRSO"
Settlement Interval	Settlement Interval is a numeric value, usually in range 1-96 (max 100) and represents the sequential counter value of the 15-minute settlement period to which consumption is aggregated for settlement in the retail market.	After "(max 100)" insert for" Rol" and then insert "/1-48 (max 50) for NI"; after "15-minute" insert "(Rol)" and then insert "/30-minute (NI)"

SSAC	SSAC is a sub-aggregation code provided by CER that specifies the aggregation class to which data will be aggregated for a supplier. Note: The SSAC codes are shown for reference but there is no validation upon the values within the Schema. Codes may be validated in SAP or manually.	Deleted "provide by CER" and delete from "Note:...." onwards
Supplier Unit ID	The Supplier Unit ID is an SEM-provided code, created by the SMO and notified to RMO during registration. Supplier Unit is a wholesale SEM-defined market participant. One Supplier may register several Supplier Units. A Supplier Unit in the retail market is the distribution-loss-factor adjusted aggregation of all metered energy assigned to that Supplier Unit through normal retail processes.	Deleted everything after "participant"
Tariff Configuration Code	A code to indicate the tariff (or rate category) required by the Supplier for a key-pad metered Meter Point.	Insert "retail" before tariff. Removed "rate category" from the text as this means something entirely different in IS-U and should not be referenced in line with the Tariff Configuration Code
Technical MPRN	The unique identifying reference number for the Un-metered Meter Point (i.e. connection point). All elements of MPRN will be provided.	Deleted from "i.e" onwards
Time of Use	The time slot to which the additional aggregated data refers, i.e. Day, Night or 24 Hour	Deleted from "i.e" onwards
Timeslot	Timeslot is a code that indicates the period that a meter is recording (or an unmetered installation is consuming electricity). Examples are 24-hour, 0800-2300(day), Monday-Friday. A timeslot will be associated with a series of interval periods	Deleted from "Examples..." onwards
Unit of Measurements	Units of measurement are a code that indicates the value that is measured (e.g. kWh, kVA, kVAr).	Corrected inconsistent naming. Name and Definition now read "Unit of Measurement"

6 Data Code changes

Table 8 below sets out, for the Data Codes that are codified, all new or changed values.

Table 8

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values
Appointment Rejection Reason		AR05 Appointment Timeout
Cancellation Reason	ME <i>name change to Registrar Error</i>	CD Objection for Contract Default DE Objection for Debt NR No reads received
Change of Usage Type		03 - Combined
Connection System (Code)		NIE TD - NIE Transmission and Distribution System
County Ireland		LY Londonderry
Customer Service Special Needs Details		0008 Dexterity Impaired
De-Registration Reason		REM - Removal of Supply
DLF (Distribution Loss Factor) Code		NIEHV - Extra High Voltage (33kV) NIHV - High voltage (6000v/11kV) NIMV - Medium and low voltage (<1000V) NITV – Transmission Connection Voltage
DUoS Group		T011 Standard Rate Domestic T053 Standard Rate PPM Domestic T045 8 Hr Off-Peak & UNR Domestic (Preserved) T046 11 Hr Off-Peak & UNR Domestic (Preserved) T047 15 Hr Off-Peak & UNR Domestic (Preserved) T048 16 Hr Off-Peak & UNR Domestic (Preserved) T056 8 Hr Off-Peak & UNR Domestic PPM (Preserved) T057 11 Hr Off-Peak & UNR Domestic PPM (Preserved) T058 15 Hr Off-Peak & UNR Domestic PPM (Preserved) T054 Domestic - Day / Night / Heat Rate Domestic PPM T050 4 Rate Time-Banded Domestic PPM T012 Economy 7 Domestic T014 Economy 7 Rate with Heating Domestic T015 Economy 7 Rate Automatic Domestic T016 4 Rate Time-Banded Domestic T052 4 Rate Time-Banded Domestic PPM (Preserved) T021 Standard Rate Combined T022 Economy 7 Rate Combined T024 Economy 7 Rate with Heating Combined T025 Economy 7 Rate Automatic Combined T026 4 Rate Time-Banded Combined T031 Standard Rate Commercial T041 8 Hr Off-Peak & UNR Commercial (Preserved) T042 11 Hr Off-Peak & UNR Commercial (Preserved) T043 15 Hr Off-Peak & UNR Commercial (Preserved) T044 16 Hr Off-Peak & UNR Commercial (Preserved) T032 Economy 7 Rate Commercial T034 Economy 7 Rate with Heating Commercial T033 Evening and Weekend Rate Commercial T035 Commercial <= 69kVA - Interval Rate T061 8 Hr Off-Peak & UNR Combined (Preserved) T062 11 Hr Off-Peak & UNR Combined (Preserved) T063 15 Hr Off-Peak & UNR Combined (Preserved)

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values
		T101 C&I - 70-1000kVA < 1kV Interval Rate T102 C&I - > 1MW Min Dist < 1kV Int Rate T103 C&I - > 1MW Med Dist < 1kV Int Rate T201 C&I - 70 -1000kVA 6.6/11kV Interval Rate T202 C&I - > 1MW Min Dist 6.6/11kV Int Rate T203 C&I - > 1MW Med Dist 6.6/11kV Int Rate T301 C&I - 70 - 1000kVA 33kV Interval Rate T302 C&I - > 1MW Min Dist 33kV Interval Rate T303 C&I - > 1MW Med Dist 33kV Interval Rate T502 Generator <= 69 kVA < 1kV Interval Rate T503 Generator >= 70 kVA < 1kV Interval Rate T504 Generator <= 69 kVA 6.6/11kV Int Rate T505 Generator > = 70 kVA 6.6/11kV Int Rate T506 Generator <= 69 kVA 33kV Interval Rate T507 Generator >= 70 kVA 33kV Interval Rate T710 Unmetered – 24 Hours T711 Unmetered – Dusk to Dawn TCON Transmission Connected
Economic Activity Indicator		01100 Growing of crops: market gardening; horticulture 01200 Farming of animals 01300 Growing of crops combined with farming of animals 01400 Agricultural animal husbandry service activities, excl vet 01500 Hunting, trapping & game propagation incl services 02000 Forestry, Logging and related service activities 05000 Fishing, operation of fish hatcheries, fish farms & services 10100 Mining and agglomeration of hard coal 10200 Mining and agglomeration of lignite 10300 Extraction and agglomeration of peat 11100 Extraction of crude petroleum and natural gas 11200 Service activities to oil & gas extraction not surveying 12000 Mining of uranium and thorium ores 13100 Mining of iron ores 13200 Mining of non-ferrous metal ores, excl uranium & thorium ore 14100 Quarrying of stone 14200 Quarrying of sand and clay 14300 Mining of chemicals and fertiliser minerals 14400 Production of salt 14500 Other mining and quarrying not elsewhere classified 15100 Production, processing & preserving of meat & meat products 15200 Processing and preserving of fish and fish products 15300 Processing and preserving of fruit and vegetables 15400 Manufacture of vegetable and animal oils and fats 15500 Manufacture of dairy products 15600 Manufacture of grain mill., starches & starch products 15700 Manufacture of prepared animal feeds 15800 Manufacture of other food products 15900 Manufacture of beverages 16000 Manufacture of tobacco products 17100 Preparation and spinning of textile fibres 17200 Textile weaving 17300 Finishing of textiles 17400 Manufacture of made-up textile articles, except apparel 17500 Manufacture of other textiles

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values
		17600 Manufacture of knitted and crocheted fabrics 17700 Manufacture of knitted and crocheted articles 18100 Manufacture of leather clothes 18200 Manufacture of other wearing apparel and accessories 18300 Dressing and dyeing of fur; manufacture of articles of fur 19100 Tanning and dressing of leather 19200 Manufacture of luggage, handbags, saddlery and harness 19300 Manufacture of footwear 20100 Saw milling and planing of wood, impregnation of wood 20200 Manufacture of veneer, plywood, laminboard & fibre board 20300 Manufacture of builders carpentry and joinery 20400 Manufacture of wooden containers 20500 Manufacture of other products of wood,cork,straw & plaiting 21100 Manufacture of pulp, paper and paperboard 21200 Manufacture of articles of paper and paperboard 22100 Publishing 22200 Printing and services activities related to printing 22300 Reproduction of recorded media 23100 Manufacture of coke oven products 23200 Manufacture of refined petroleum products 23300 Processing of nuclear fuel 24100 Manufacture of basic chemicals 24200 Manufacture of pesticides and other agro-chemical products 24300 Manufacture of paints, varnishes, coatings, printing ink 24410 Manufacture of pharmaceuticals, medicinal & botanical prodts 24500 Manufacture of soap, detergents, polish, perfume, toiletries 24600 Manufacture of other chemical products 24700 Manufacture of man-made fibres 25100 Manufacture of rubber products 25200 Manufacture of plastic products 26100 Manufacture of glass and glass products 26200 Manufacture of refractory / non-refractory ceramic products 26300 Manufacture of ceramic tiles and flags 26400 Manufacture of bricks, tiles & construction products 26500 Manufacture of cement, lime and plaster 26600 Manufacture of articles of concrete, plaster and cement 26700 Cutting, shaping and finishing of stone 26800 Manufacture of other non-metallic mineral products 27100 Manufacture of basic iron and steel and of ferro-alloys 27200 Manufacture of tubes 27300 Other first processing of iron, steel, non-ECSC ferro-alloys 27400 Manufacture of basic precious and other non-ferrous metals 27500 Casting of metals 28100 Manufacture of structural metal products

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values
		28200 Manufacture of tanks, containers, radiators & CH boilers 28300 Manufacture of steam generators, not central heating boilers 28400 Forging, pressing, stamping & roll forming of metal 28500 Treatment & coating of metal; general mechanical engineering 28600 Manufacture of cutlery, tools and general hardware 28700 Manufacture of other fabricated metal products 29100 Manufacture of mechanical machinery, not cycle engines 29200 Manufacture of other general purpose machinery 29300 Manufacture of agricultural and forestry machinery 29400 Manufacture of machine tools 29500 Manufacture of other special purpose machinery 29600 Manufacture of weapons and ammunition 29700 Manufacture of domestic appliances not elsewhere classified 30000 Manufacture of office machinery and computers 31100 Manufacture of electric motors, generators and transformers 31200 Manufacture of electricity distribution & control apparatus 31300 Manufacture of insulated wire and cable 31400 Manufacture of accumulators, primary cells & batteries 31500 Manufacture of lighting equipment and electric lamps 31600 Manufacture of electrical equipment not elsewhere classified 32100 Manufacture of electronic valves, tubes & electronic parts 32200 Manufacture of TV, radio transmitters & line telephony 32300 Manufacture of TV, radio receivers, sound, video recording 33100 Manufacture of medical, surgical & orthopaedic appliances 33200 Manufacture of instruments for measuring, checking, testing 33300 Manufacture of industrial process control equipment 33400 Manufacture of optical instruments & photographic equipment 33500 Manufacture of watches and clocks 34100 Manufacture of motor vehicles 34200 Manufacture of bodies for motor vehicles & trailers 34300 Manufacture of parts & accessories for motor vehicles 35100 Building and repairing of ships and boats 35200 Manufacture of railway, tramway locomotives & rolling stock 35300 Manufacture of aircraft and spacecraft 35400 Manufacture of motorcycles and bicycles 35500 Manufacture of other transport equipment not else classified 36100 Manufacture of furniture 36200 Manufacture of jewellery and related articles 36300 Manufacture of musical instruments 36400 Manufacture of sports goods 36500 Manufacture of games and toys

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values
		36600 Miscellaneous manufacturing not elsewhere classified 37100 Recycling of metal waste and scrap 37200 Recycling of non-metal waste and scrap 40100 Production and distribution of electricity 40200 Manufacture of gas; distribution of gaseous fuels by mains 40300 Steam and hot water supply 41000 Collection, purification and distribution of water 45100 Site preparation 45200 Building constructions; civil engineering 45300 Building installation 45400 Building completion 45500 Renting of construction / demolition equipment with operator 50100 Sale of motor vehicles 50200 Maintenance and repair of motor vehicles 50300 Sale of motor vehicle parts and accessories 50400 Sale, maintenance, repair of motorcycles & parts 50500 Retail sale of automotive fuel 51100 Wholesale on a fee or contract basis 51200 Wholesale of agricultural raw materials and live animals 51300 Wholesale of food, beverages and tobacco 51400 Wholesale of household goods 51500 Wholesale of non-agricultural products, waste and scrap 51800 Wholesale of machinery, equipment and supplies 51900 Other wholesale 52100 Retail sale in non-specialised stores 52200 Retail sale of food, beverages & tobacco in specialised shop 52300 Retail sale of pharmaceutical, medical & cosmetic articles 52400 Other retail sale of new goods in specialised stores 52500 Retail sale of second-hand goods in stores 52600 Retail sale of not in stores 52700 Repair of personal and household goods 55100 Hotels 55200 Camping sites & other provision of short-stay accommodation 55300 Restaurants 55400 Bars 55500 Canteens and Catering 60100 Transport via railways 60200 Other land transport 60300 Transport via pipelines 61100 Sea and coastal water transport 61200 Inland water transport 62100 Scheduled air transport 62200 Non-scheduled air transport 62300 Space transport 63100 Cargo handling and storage 63200 Other supporting transport activities 63300 Activities of travel agencies and tour operators 63400 Activities of other transport agencies 64100 Post and courier activities 64200 Telecommunications 65100 Monetary intermediation

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values
		65200 Other financial intermediation 66000 Insurance & pension funding, excl compulsory social security 67100 Activities auxiliary to finance not insurance or pension 67200 Activities auxiliary to insurance and pension funding 70100 Real estate activities with own property 70200 Letting of own property 70300 Real estate activities on a fee or contract basis 71100 Renting of automobiles 71200 Renting of other transport equipment 71300 Renting of other machinery and equipment 71400 Renting of personal and household goods not else classified 72100 Hardware consultancy 72200 Software consultancy and supply 72300 Data processing 72400 Data base activities 72500 Maintenance of office, accounting and computing machinery 72600 Other computer related activities 73100 Research and development on natural sciences and engineering 73200 Research and development on social sciences and humanities 74100 Legal, accounting, book-keeping, tax, consultant, auditing 74200 Architectural, engineering & related technical consultancy 74400 Advertising 74500 Labour recruitment and provision of personnel 74600 Investigation and security activities 74700 Industrial cleaning 74800 Miscellaneous business activities not elsewhere classified 75100 Administration of the State, economic & social policy 75200 Provision of services to the community as a whole 75300 Compulsory social security activities 80100 Primary education 80200 Secondary Education 80300 Higher education 80400 Adult and other education 85100 Human health activities 85200 Veterinary activities 85300 Social work activities 90000 Sewage and refuse disposal, sanitation & similar activities 91100 Activities of business, employers & professional orgs 91200 Activities of trade unions 91300 Activities of other membership organisations 92100 Motion picture and video activities 92200 Radio and television activities 92300 Other entertainment activities 92400 News agency activities 92500 Library, archives, museums and other cultural activities 92600 Sporting activities 92700 Other recreational activities 93000 Other service activities 95000 Private households with employed persons

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values												
		96000 Goods producing activities of private households for own use 97000 Services producing activities of private houses for own use 99000 Extra-territorial organisations and bodies 98000 Domestic 99999 Unknown												
Interval Status	VACH - <i>name change to Value</i> substituted by Interval Data Collector	VDAT - Value estimated in data aggregation												
Load Profile		801 Domestic Unrestricted 802 Domestic Switched 803 Non Domestic Unrestricted 804 Non Domestic Switched 805 Unmetered Flat 806 Unmetered Dusk Dawn 880 Mixed Domestic 890 Mixed Non Domestic												
Medical Equipment Special Needs details		OC Oxygen Concentrator SP Suction Pump HD Home Dialysis NP Peg Tube Feeding Pump EH Electric Hoist CL Electric Chair Lift PN Total Parental Nutrition Machine PV Patient Vital Signs Monitoring Systems VT Ventilator NB Nebuliser EM Electric Mattress/Bed SL Electric Pressure Stair Lift MS Multiple Sclerosis FR Vital Medicine Requiring Refrigeration												
Meter Configuration Code		H050 Interval Meter H100 Interval Meter kWh + kVArh Import only (STOD) H101 Interval Meter Import and Export N001 Unrestricted N002 Day/Night (01:00 - 08:00) N003 Evening and Weekend N004 Day, Night and (Storage Heating Non Auto + Water Heating) N005 Day and (Night + Storage Heat Non Auto) and Water Heating N007 Day and (Night + Storage Heating Auto) and Water Heating <table border="1" data-bbox="746 1688 1414 1935"> <tr> <td>N008</td> <td>4 Rate Time Banded</td> </tr> <tr> <td>N009</td> <td>4 Rate Time Banded with Export</td> </tr> <tr> <td>N010</td> <td>Unrestricted + Export</td> </tr> <tr> <td>N011</td> <td>Day/Night + Export</td> </tr> <tr> <td>N012</td> <td>Unmetered</td> </tr> <tr> <td>N040</td> <td>Preserved 4 Rate Time Banded (Day/Night)</td> </tr> </table> N041 Preserved 8hr credit N042 Preserved 11hr credit	N008	4 Rate Time Banded	N009	4 Rate Time Banded with Export	N010	Unrestricted + Export	N011	Day/Night + Export	N012	Unmetered	N040	Preserved 4 Rate Time Banded (Day/Night)
N008	4 Rate Time Banded													
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Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values																				
		<p>N043 Preserved 15hr credit N044 Preserved 16hr credit</p> <table border="1" data-bbox="746 277 1414 418"> <tr> <td>N045</td> <td>Preserved 11hr Keypad</td> </tr> <tr> <td>N046</td> <td>Preserved Day/Night (Code A)</td> </tr> <tr> <td>N047</td> <td>Preserved 15Hr keypad</td> </tr> <tr> <td>N099</td> <td>Non Standard Code Groups</td> </tr> </table> <p>N061 Non Standard 3 x UNR N062 Non Standard 2 x UNR & 1 x R23 N063 Non Standard 2 x UNR N064 Non Standard 1 x UNR & 2 x R23 N065 Non Standard 2 x D01, 1 x N01 & 2 x HT1 N066 Non Standard 2 x D01, 1 x N01 & 1 x HT1 N067 Non Standard 1 x D01, 1 x N01 & 2 x HT1 N068 Non Standard 2 x D01, 2 x N01 N098 Non Standard Off Peak.</p>	N045	Preserved 11hr Keypad	N046	Preserved Day/Night (Code A)	N047	Preserved 15Hr keypad	N099	Non Standard Code Groups												
N045	Preserved 11hr Keypad																					
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Meter Configuration Code (Required)		<p>H050 Interval Meter H100 Interval Meter kWh + kVArh Import only (STOD) H101 Interval Meter Import and Export</p> <p>N001 Unrestricted N002 Day/Night (01:00 - 08:00) N003 Evening and Weekend N004 Day, Night and (Storage Heating Non Auto + Water Heating) N005 Day and (Night + Storage Heat Non Auto) and Water Heating N007 Day and (Night + Storage Heating Auto) and Water Heating</p> <table border="1" data-bbox="746 1184 1414 1431"> <tr> <td>N008</td> <td>4 Rate Time Banded</td> </tr> <tr> <td>N009</td> <td>4 Rate Time Banded with Export</td> </tr> <tr> <td>N010</td> <td>Unrestricted + Export</td> </tr> <tr> <td>N011</td> <td>Day/Night + Export</td> </tr> <tr> <td>N012</td> <td>Unmetered</td> </tr> <tr> <td>N040</td> <td>Preserved 4 Rate Time Banded (Day/Night)</td> </tr> </table> <p>N041 Preserved 8hr credit N042 Preserved 11hr credit N043 Preserved 15hr credit N044 Preserved 16hr credit</p> <table border="1" data-bbox="746 1583 1414 1724"> <tr> <td>N045</td> <td>Preserved 11hr Keypad</td> </tr> <tr> <td>N046</td> <td>Preserved Day/Night (Code A)</td> </tr> <tr> <td>N047</td> <td>Preserved 15Hr keypad</td> </tr> <tr> <td>N099</td> <td>Non Standard Code Groups</td> </tr> </table> <p>N061 Non Standard 3 x UNR N062 Non Standard 2 x UNR & 1 x R23 N063 Non Standard 2 x UNR N064 Non Standard 1 x UNR & 2 x R23 N065 Non Standard 2 x D01, 1 x N01 & 2 x HT1 N066 Non Standard 2 x D01, 1 x N01 & 1 x HT1 N067 Non Standard 1 x D01, 1 x N01 & 2 x HT1 N068 Non Standard 2 x D01, 2 x N01 N098 Non Standard Off Peak.</p>	N008	4 Rate Time Banded	N009	4 Rate Time Banded with Export	N010	Unrestricted + Export	N011	Day/Night + Export	N012	Unmetered	N040	Preserved 4 Rate Time Banded (Day/Night)	N045	Preserved 11hr Keypad	N046	Preserved Day/Night (Code A)	N047	Preserved 15Hr keypad	N099	Non Standard Code Groups
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N009	4 Rate Time Banded with Export																					
N010	Unrestricted + Export																					
N011	Day/Night + Export																					
N012	Unmetered																					
N040	Preserved 4 Rate Time Banded (Day/Night)																					
N045	Preserved 11hr Keypad																					
N046	Preserved Day/Night (Code A)																					
N047	Preserved 15Hr keypad																					
N099	Non Standard Code Groups																					

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values
Meter Point Status Reason		E04 - Re-energise (Rewire)
Meter Works Type	M04 <i>name change to Install Interval Metering and Communications</i>	M11 General Meter Damage (non RPU) M12 Change from Prepayment to Credit M14 Fit Check Meter M15 Heating not working K01 Change keypad meter configuration - no site visit required K02 Prepayment meter, configuration code change K05 Replace credit meter with keypad meter - site visit required K06 Forced replacement of credit meter with prepayment meter K08 Prepayment meter with large minus credit M01 MCC change (Non Interval, Non keypad) M04 Install Interval Metering and Communications
No Read Code	67 <i>name change to Dog Issue</i>	104 Commercial Premises Closed 106 No Keys 107 Gates Locked - Card Left 108 Can not open door 109 Gates Locked - No Card Left
Objection Reason		CD Contract Default (commercial only) DE Aged Debt (commercial only) DCN Debt contact notification residential only)
Observation Code		53 Investigate / Change Tele- / Time-switch 77 Derelict premises 78 In wrong route 81 Old meter requiring updating 82 Suppliers check meter number request 83 Incoming Supply ID 91 Usage Query 92 Meter Reading Complaint 93 Meter Reading Enquiry 94 RPU Complaint 102 New Cust/Live Slip 205 Customer Reading 209 Now Occupied 213 Multiplier not used 215 Wrong Meter Number 217 Missing Seals 218 RPU 219 Health & Safety 221 Wrong number of digits 226 Freedom Unit/Comms Cable Issue
Outcome Reason Code		C008 Revenue Protection Issue C009 Derelict/Demolished premise C010 Not completed at Supplier's request R011 Insufficient meter space R012 Customer cable tails incorrectly coded R013 Insufficient labels

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values
		R014 Incorrect earthing R015 Residual Current Device (Trip) not operating correctly R016 Customer wrong phase R017 High earth test (customer) R018 Customer Install Incomplete R019 Connection Card Required R020 Warrant Required R021 No Supply at cut out R022 No cable to house R023 High earth test (NIE) R024 Incorrect Address R025 No cut out fitted R026 Job returned for Reschedule R027 Unable to reach Location R028 Safety Issue – Defect Notice Issued
Party ID		NIE - Northern Ireland Electricity
Prepayment Type		P01 Secure Meters (PRI)
Provisional Acceptance Completion Requirement Code		CCR Connection Card Required
Read Type	SU name change to Substitute (Interval)	
Register Type		21 Unrestricted 22 Day (M-S, 8-1) 23 Day (M-S, 8-23, 24-2) 24 Night (M-S, 1-8) 25 Night (M-S, 23-24, 2-8) 26 Night + Storage Heating Non Auto 27 Night + Storage Heating Auto 28 Storage Heating + Water Heating Non Auto 29 Storage Heating + Water Heating Auto 30 Water Heating only 31 Weekday Day (M-F) 32 Weekday Night + Weekend 33 Four Rate 1 34 Four Rate 2 35 Four Rate 3 36 Four Rate 4 37 24H Export 38 KP5 39 KP6 40 KP7 41 KP8 42 8 Hour off Peak 43 11 Hour Off Peak 44 3 of 11 Hours off Peak Keypad only 45 15 Hour Off Peak (Credit) 46 16 Hour Off Peak 47 15 Hour Off Peak (Keypad) 60 Import kWh 61 Import kVAh 62 Export kWh 63 Export kVAh
Reject Reason	QHM name change to Interval Meter	DIJ Data invalid for Jurisdiction

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values																		
	Point NQE <i>name change to</i> Not Interval Eligible IRC <i>remove</i> <i>bracketed text</i> Invalid reason code (objection/cancellation/deregistration) TIM <i>remove</i> <i>bracketed text</i> Outside Timescale (Objection/Cancellation/Deregistration)	CCC Fieldwork Completed - cannot be cancelled CNM Change of Tenancy/Legal Entity on 010(CoS)" DUP Duplicate request EXA Expired Appointment HHM HH Metering must be requested ITF Invalid Tariff Configuration Code IUT Incompatible usage type ICM Inconsistent with MIC NMR No Matching RequestMWI Meter Works Incompatible with MCC NID No Appointment ID IAI Invalid Appointment ID AIM Appointment ID does not match MPRN MIA Work Type incompatible with Appointment DID Duplicate Appointment ID ITA Inconsistent with Trading Arrangement NOR No outstanding request, cannot be cancelled REV Revenue Protection Activity DNA De-energisation Not Allowed - supply agreement exists IVS Invalid Vacant Sequence TCI Tariff configuration code incompatible with MCC CDR Customer details required for CoLE IMW Invalid Meter Works Type code																		
Senders ID		S40 Budget Energy S41 LCC Power Ltd.																		
TimeOfUse	UNM Unmetered Supply																			
Timeslot		D01 Day (M-S, 8-1) D02 Day (M-S, 8-23, 24-2) ENI 24 Hour Export <table border="1"> <tr> <td>HT1</td> <td>Heating (Non Auto M - S 7H in 24 + Water Heating 4H Night + 1H Boost)</td> </tr> <tr> <td>HT2</td> <td>Heating (Auto M - S 0.5 - 9H + Water Heating 4H Night + 1H Boost)</td> </tr> <tr> <td>HT3</td> <td>Water Heating (4H Night + 1H Boost)</td> </tr> </table> INT Interval <table border="1"> <tr> <td>N01</td> <td>Night (M-S, 1-8)</td> </tr> <tr> <td>N02</td> <td>Night (M-S, 23-24, 2-8)</td> </tr> <tr> <td>N03</td> <td>Night (M-S,1-8 + Heating Non Auto)</td> </tr> <tr> <td>N04</td> <td>Night (M-S,1-8 + Heating Auto)</td> </tr> </table> <table border="1"> <tr> <td>R21</td> <td>8 Hour Off Peak (M-S, 23-7)</td> </tr> <tr> <td>R22</td> <td>11 Hour Off Peak (M-S, 23-7 + 3H)</td> </tr> </table>	HT1	Heating (Non Auto M - S 7H in 24 + Water Heating 4H Night + 1H Boost)	HT2	Heating (Auto M - S 0.5 - 9H + Water Heating 4H Night + 1H Boost)	HT3	Water Heating (4H Night + 1H Boost)	N01	Night (M-S, 1-8)	N02	Night (M-S, 23-24, 2-8)	N03	Night (M-S,1-8 + Heating Non Auto)	N04	Night (M-S,1-8 + Heating Auto)	R21	8 Hour Off Peak (M-S, 23-7)	R22	11 Hour Off Peak (M-S, 23-7 + 3H)
HT1	Heating (Non Auto M - S 7H in 24 + Water Heating 4H Night + 1H Boost)																			
HT2	Heating (Auto M - S 0.5 - 9H + Water Heating 4H Night + 1H Boost)																			
HT3	Water Heating (4H Night + 1H Boost)																			
N01	Night (M-S, 1-8)																			
N02	Night (M-S, 23-24, 2-8)																			
N03	Night (M-S,1-8 + Heating Non Auto)																			
N04	Night (M-S,1-8 + Heating Auto)																			
R21	8 Hour Off Peak (M-S, 23-7)																			
R22	11 Hour Off Peak (M-S, 23-7 + 3H)																			

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values	
		R23	15 Hour Off Peak (M-F 19.30-07.30 + 3H + All W/E)
		R24	16 Hour Off Peak (M-F 18.30-07.30 + 3H + All W/E)
		R25	3 Hour Boost for 11Hour Off Peak (Keypad)
		R26	15 Hour Off Peak (M-F 18-7 +2H + All W/E, Keypad)
		UNR 24 Hour	
		W01	Weekday (M-F 07.30-20.00)
		W02	Weeknight (20:00-07:30 + all W/E)
		KP5	Keypad 5 (M-F, 8-19)
		KP6	Keypad 6 (M-F, 19-24)
		KP7	Keypad 7 (Sat-Sun, 8-24)
		KP8	Keypad 8 (M-S, 0-8)
		FR1	Four Register 1 (M-F, 16-19)
		FR2	Four Register 2 (M-F, 8-16)
		FR3	Four Register 3 (M-F, 19-24 + Sat-Sun,8-19)
		FR4	Four Register 4 (M-F, 0-8 + Sat-Sun 19-8)
Title		Lady Lady Lord Lord Cllr Councillor Msgr Monsignor Sir Sir	
Time of Use		D01	Day (M-S, 8-1)
		D02	Day (M-S, 8-23, 24-2)
		ENI	24 Hour Export
		FR1	Four Register 1 (M-F, 16-19)
		FR2	Four Register 2 (M-F, 8-16)
		FR3	Four Register 3 (M-F, 19-24 + Sat-Sun,8-19)
		FR4	Four Register 4 (M-F, 0-8 + Sat-Sun 19-8)
		HT1	Heating (Non Auto M - S 7H in 24 + Water Heating 4H Night + 1H Boost)
		HT2	Heating (Auto M - S 0.5 - 9H + Water Heating 4H Night + 1H Boost)
		HT3	Water Heating (4H Night + 1H Boost)
		KP5	Keypad 5 (M-F, 8-19)
		KP6	Keypad 6 (M-F, 19-24)
		KP7	Keypad 7 (Sat-Sun, 8-24)

Data Item	Amended ROI Valid Code Values	Additional NI Valid Code Values	
Withdrawal Reason		KP8	Keypad 8 (M-S, 0-8)
		N01	Night (M-S, 1-8)
		N02	Night (M-S, 23-24, 2-8)
		N03	Night (M-S,1-8 + Heating Non Auto)
		N04	Night (M-S,1-8 + Heating Auto)
		R21	8 Hour Off Peak (M-S, 23-7)
		R22	11 Hour Off Peak (M-S, 23-7 + 3H)
		R23	15 Hour Off Peak (M-F 19.30-07.30 + 3H + All W/E)
		R24	16 Hour Off Peak (M-F 18.30-07.30 + 3H + All W/E)
		R25	3 Hour Boost for 11Hour Off Peak (Keypad)
		R26	15 Hour Off Peak (M-F 18-7 +2H + All W/E,Keypad)
		UNR	24 Hour
		W01	Weekday (M-F 07.30-20.00)
		W02	Weeknight (20:00-07:30 + all W/E)
		E1 – Miscellaneous	

Table 9 below sets out, for the Data Codes that are non-schema, all new values.

Table 9

Data Item	Business Data Definition	Valid Code Values
Meter Category	Meter Category is a code allocated by Meter Asset Manager to denote the manufacturer and type of meter.	RM280 Hardwired RM281 DLC
Order Status	This is a code indicating the status of the order	FINI Finished RESC Rescheduled WCCH Cancelled with charge WCNC Cancelled with no charge
Outcome Reason	<p>This is a code indicating the outcome reason of the original request:</p> <p>Please note that this field is not populated where the Order Status is 'WCCH' or 'WCNC'</p>	DN01 D/E - At Cutout DN02 D/E - Non Standard DN03 Not D/E - Sickness/Bereavement DN04 Not D/E - No Adult Present DN05 Not D/E - Refused Access DN06 Not D/E - Cust/Supp Arr/Paid DN07 COLE done by Supplier DN08 Not D/E - o/s/costs involved DN09 Supplier Phone Unanswered DN10 Staff Safety Problem R001 No Access R002 Snag Customer Fault R003 Snag R004 Temporary Repair R005 Partial Complete Customers Fault R006 Partial Complete R007 Missed Appointment Customers Fault R008 Missed Appointment R009 Unreached R010 Cert required DS01 D/E - At Cutout DS02 D/E - Non Standard DS03 Not D/E - Bereavement DS04 COLE done by Supplier DS05 Not D/E - o/s/costs involved DS06 Supplier Phone Unanswered DS07 Could not locate premise DS08 Safety Problem DS09 Missed Appointment Customers Fault RE01 Re-Energised RE02 Not Re-energised due to No Access RE03 Not Re-energised due to Missed appointment / Customers fault RE04 Not re-energised – safety problem C001 Completed as requested C002 Could not locate premise C003 No access/ missed appt cust fault C004 Incorrect call type requested C005 Location not suitable C006 Cust did not allow job to proceed C007 Staff Safety Problem
131 Request Status	This is a code indicating the status of the original request.	A Work request accepted C1 Work Physically complete and call complete

Data Item	Business Data Definition	Valid Code Values
		C2 Work Physically Incomplete and call complete R Work is Rescheduled X Work is cancelled S Call complete, work (to be) rescheduled
Unmetered Type	Codified field indicating the type of unmetered installation	2D Fluorescent ('U' Shaped) BARR Barriers BEAC Beacons BOLF Bollards (F) BOLL Bollards (L) BUS1 Bus Shelters (1) BUS2 Bus Shelters (2) BUS3 Bus Shelters (3) CCTV Close Circuit TV CDMT Metal Halide CDOT Public Light CFL Compact Fluorescent FLR Fluorescent (R) FLU Fluorescent (U) FPOS Finger Posts HAL Halogen (1) HALO Halogen (2) HEAT Miscellaneous Street Furniture (Galway) HPIT Millennium Bridge Project in Dublin IND Induction Lamp KISK Telephone Kiosks LED Light Emitting Diode MBF Mercury MBT Mercury Tungsten MBTF Mercury Tungsten Fluorescent MCF Fluorescent (F) MH Metal Halide MHF Metal Halide (F) MHL Metal Halide (L) MHNT Metal Halide Double Ended NAV Navigation Lights NEON Airport Road Lights (Cork) OMN Miscellaneous Decorative Lights PARK Parking meters PBUS Push Button Units (Associated with Traffic Lights) PED Pedestrian Lights (Standard Configuration) PED2 Pedestrian Lights (Non Requestable Legacy Configuration 2) PED3 Pedestrian Lights (Non Requestable Legacy Configuration 3) SCH School Flashing Lights SHRN Shrines SIGN Lee Tunnel signs SL Sodium Lamp SLI Sodium LP with Linear Lamp SON Sodium HP with Standard Gear SONE Electronic Gear SOX Sodium LP with Standard Gear SOXE Sodium LP with Hybrid Gear SPCA Speed Cameras SXHF Sodium LP with High Frequency Gear

Data Item	Business Data Definition	Valid Code Values
		TAXI Taxi Rank Signs TEL Emergency Motorway Telephone THAL Millennium Floodlighting - Liffey Bridges (1) TI Decorative Lamp TLDF Millennium Floodlighting - Liffey Bridges (2) TRC Traffic Counters TUN Tungsten VEH Traffic Lights (Standard Configuration) VEH2 Traffic Lights (Non Requestable Legacy Configuration 2) VEH3 Traffic Lights (Non Requestable Legacy Configuration 3) VMS Associated with traffic/pedestrian lights XFLR Fluorescent (R) XFLU Fluorescent (U) XMBF Mercury XMBT Mercury Tungsten Fluorescent XMCF Fluorescent (F) XSL Sodium Lamp XSLI Sodium LP with Linear Lamp XSON Sodium HP with Standard Gear XSOX Sodium LP with Standard Gear XTI Decorative Lamp XTUN Tungsten WAR Miscellaneous Street Furniture (Clare) SPU Single Point Unmetered ADV Advertisement Display MAST BT Mast BTBB BT Broadband Booster BCCT BT Cellnet CAM Camera CLK Clock CBAR Car Park Barriers CROS Crossing Site CRP BSC Cellular Radio Premises CSC Community Safety Camera CT54 CT54 Payphone FLM Flow Meter GAU Gauging Station Instrument PAYP Payphone LAMP Lamps LBSF Lamp Bus Shelter Fluorescent LMPF Lamp Fluorescent LMPM Lamp Mercury Fluorescent LMPS Lamp Sodium LMPT Lamp Tungsten MBTS Microcell mini BTS Site MOLO MOLO MPL Mini Pillar MTRC Meter Cubicle MWF Motorway Flashers NWEB N W E Broadband PEDD Pedestrian Control Dimmed PAYD Pay & Display PEDC Pedestrian Crossing PUMP Pump POFS Pay on Foot Station POFB Pay on Foot Barrier

Data Item	Business Data Definition	Valid Code Values
		RIMF Refuge Islands Mercury/Fluorescent SCP School Crossing Patrol FLUO Fluorescent MERF Mercury/Fluorescent SOLP Sodium Low Pressure SOHP Sodium High Pressure HPSE High Pressure Sodium Electronic COSM Street Light Cosmopolis CDMT CDMT MEHP Mercury High Pressure TCOM Cabinet for Telecoms Equipment TMA Traffic Management Apparatus TSF Traffic Sign Fluorescent TST Traffic Sign Tungsten TSMF Traffic Sign Mercury/Fluorescent TSM Traffic Sign Mercury TSBF Traffic Signal Box Fluorescent TSD Traffic Sign Dimmed TSMT Traffic Sign Mercury/Tungsten TVA TV amp TVR TV Relay TXTP TXTPHONE WBS Water Booster Station WIFI WIFI WSTN Weather Station WIGW Wig Wag (No entry flasher)
Work Type	This is a code indicating the work type	W101 De-energise W102 De-energise UnmetW103 De-energise NPA W201 Re-Energise W202 Re-Energise - Wiring Cert required W203 Re-Energise NPA W204 Re-Energise Unmet W301 MCC change-Exch from D/T to S/T W302 MCC change-Exch from F.R. to MD W303 MCC change-Exch from ST to D/T W304 MCC change-Install NSH MT & T/S W305 MCC change-Remove NSH MT & T/S W306 MCC change-Other MCC Change W307 Install Token Meter W308 Reset Token Meter W309 Token Meter Fault/Ex W310 Remove Token Meter W311 Other Meter Work-Inst Signals Ext MFM W312 Other Meter Work-Exch MD for MD+Sgnls W313 General Meter Damage (non RPU) W314 Fit Check Meter W315 CT Meter Test W316 Install Interval Metering and Communications W317 Special Read W318 PPM Problem Resolution W319 Meter Change – Credit to PPM W320 Meter Change – PPM to Credit W401 Revenue Protection-Reseal MT/T/S Local W402 RP Inspection Visit

Data Item	Business Data Definition	Valid Code Values
		W403 RP Special Test Exch W404 Revenue Protection-Special test in-situ W405 Revenue Protection-WC CK/Repl/Reset T/S W406 Revenue Protection-MM CK/Repl/Reset T/S W407 Revenue Protection-Meter T/S Damage

Table 10 below sets out the new NI Data Codes which will be included in the Harmonised schema.

Table 10

Data Item	Valid Code Values
Meter Reader Remarks	102 New Cust/Live slip 103 Now vacant 205 Customer Reading 225 Reading OK 64 Vacant - No Card left 65 Vacant - Card Left 67 Dog Issue 68 Meter Obstructed 70 Cannot locate meter 71 Cannot locate premises 73 Refused Access - Unreasonable 75 Meter Hard to read 76 Demolished premises 77 Derelict premises 97 Estimate as a result of Implausible Read 104 Commercial Premises Closed 106 No Keys 107 Gates Locked - Card Left 108 Cannot open door 109 Gates Locked - No Card Left 209 Now Occupied
Security Question	01 Mother's maiden name 02 Date of birth 03 Primary School Attended 04 First child's name
Tariff Configuration Code	00 01 02 03 04 05 06 30 32 33 34 41 42 43 44 45 46 51 52 53 54 55 56 57 58 59 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76 77 78 81 82 83 84 85 86 87 88 89 91 92 93 94 95 96 97 98 99 A1 A2 A3 A4 A5 A6 A7 A8 A9 AA AB AC AD B1 B2 B3 B4 B5 B6 B7 B8 B9

7 ROI Market Message Harmonisation Guides

For ease of documentation and reference, information on the harmonised market messages has been provided in the format of Market Message Guides.

7.1 Common Data Segments



Common Data Segments v2.3.doc

7.2 Meter Registration



Meter Registration v2.3.doc

7.3 Data Processing



Data Processing v2.3.doc

7.4 Meter works



Meter works
v2.3.doc

7.5 Data Aggregation



Data Aggregation
v2.3.doc

7.6 Customer and Data Agreements



Customer and Data
Agreements v2.3.doc

7.7 Market Gateway Activity



Market Gateway
Activity v2.3.doc

7.8 DUoS and Transaction Payments



DUoS and
Transaction Payment:

7.9 SSA

This Guide contains pre-SEM messages that are no longer in use and is provided for historical record. It provides for messages 501, 501S, 504, 504S, 505 and 505S, all of which have now been stood down and have been removed from the Harmonised Schema.



SSA v2.3.doc

7.10 Unmetered



Unmetered v2.3.doc

8 MP Extranet change

As part of Harmonisation, Load Profile will be displayed on the MP Extranet (refer to HWG3a attached, last item on slide 14).

NB – Load Profile means Standard Profile

9 Design Clarifications

The following design clarifications relate to how the ESNB Design team have interpreted some key aspects of the MCRs comprising the HBL in the following areas:

1. Treatment of submission of multiple Customer Service Codes on 010, 013, 016 and 017 (MCR1028)
2. Processing of inbound Market Messages with non-ROI MPRNs
3. Treatment of Boolean values
4. Processing of inbound Market Messages with non-ROI Data Codes.

These clarification were issued at the IGG Meeting on 11 January, 2012.



MCR1028
treatment.pdf



Invalid MPRNs.pdf



Boolean Values.pdf



Non-ROI Data
Codes.pdf

10 Appendix 1

Harmonisation Working Group Slides

The attached presentations, which were utilised at each HWG meeting, are for reference purposes only.



HWG 1 20091006
v04.pdf



HWG 2 20091020
v10.pdf



HWG 3 20091102
v10.pdf



HWG 3a 20091111
v11.pdf



HWG 4 20091116
v11.pdf



HWG 5 20091201
v11.pdf



HWG 6 20091214
v10.pdf