

Retail Market Harmonisation Working Group 5

CER Offices, Tallaght

01 December 2009

Agenda

- ❖ **Minutes from HWG3a/4 11th/16th November**
- ❖ **Matters Arising & Outstanding from previous HWG meetings**
- ❖ **Presentation of Data Processing, Aggregation and Billing**
- ❖ **Proposal Agreements for Customer Data and Meter Point Characteristics**
- ❖ **Any Other Business**
- ❖ **Next Meeting**

Matters From Previous HWG - Proposals

- ❖ **EAC effective date available in aggregation audit trail – to Dec 1st**
 - ❖ NIE will provide EAC and AAC effective from dates
- ❖ **Review of response messages when a CoS estimate is not possible**
 - ❖ Suppliers should review last read date on messages 102/102P
 - ❖ Last read date will also be available from MPRN web-site (NIE and ESB)
 - ❖ Attention by Suppliers to this data should reduce cancellation timeouts due to 'no read, cannot estimate' situations
- ❖ **Message 311**
 - ❖ NIE will manually review trouble code observations and issue message 311 to Suppliers where appropriate
 - ❖ Working practice will be similar to ESB
 - ❖ No change to the schema reported at HWG4
- ❖

Matters From Previous HWG – De-Energisation in NI

- ❖ **Suppliers have requested that domestic de-energisation for non-payment is allowed**
 - ❖ Prevention of domestic de-energisation for non-payment was incorporated into NI MRC in 2007
 - ❖ Any proposal to revoke this requirement would require review by the Consumer Council and agreement by NIAUR
 - ❖ Protection may be required for vulnerable customers as in RoI
- ❖ **A combined credit premise can be de-energised for non-payment**
- ❖ **Suppliers would be responsible for any warrants required for de-energisation**

Matters From Previous HWG – Message 301N

- ❖ **Message 301N is sent when a quote is issued to customers involving a change to Meter Point Characteristics (typically MIC)**
- ❖ **In NIE in 12 months to March 2009:**
 - ❖ 515 Ind&Comm jobs were raised generating 861 quotations
 - This includes 346 re-quotations
 - ❖ 341 Ind&Comm quotations were finally accepted
 - ❖ 520 Ind&Comm quotations were not accepted (60% of the total issued)
- ❖ **Question for Supplier Consideration**
 - ❖ Receive earlier 301N, risk that 60% are spurious; or
 - ❖ Receive later 301N only for those quotes that were finally accepted
- ❖ **In either case message 301 will also be sent to confirm the effective date of the changes**

Matters From Previous HWG – Carried Forward

- ❖ **NIE MPRN Website Data Publication Legal Review**
- ❖ **CER Consultation & CoP on Objection & Debt**
- ❖ **Report back on differences in the check digit algorithm**
- ❖ **De-energisation CoP review – to detailed design**
- ❖ **Extension of CoS customer read window to D-5 (IGG status)**
- ❖ **Technical options to enable a Supplier to send messages on behalf of another Supplier (e.g. a retailer)**
 - ❖ Issue is not just a schema issue
 - ❖ Impacts on technical services such as message authentication
 - ❖ Has ramifications deep within NIE and ESN systems
 - ❖ May require message header to remain mismatched in short term
 - ❖ May only be resolvable in long term through significant modifications to the way messaging infrastructure is delivered

**Proposals on
Data Processing
Unmetered Data Processing
Data Aggregation
DUoS Billing**

Data Processing - Messaging

- ❖ **NIE will introduce the following messages**
 - ❖ Message 208 CoS Read Disputes
 - ❖ Message 342 Interval Meter Export
 - ❖ Messages 306W, 307W, 310W, 320W and 332W – Withdrawn Reading
- ❖ **Messages 303R and 305 were already introduced by Enduring Solution**

- ❖ **NIE will not introduce the following messages**
 - ❖ Message 308 Load Factor Exceptions
 - NHH MD metering is to be phased out in NI

Data Processing – NHH Estimation Method

(credit and multi-rate keypad meters)

- ❖ **NIE will further refine estimating approach as follows**
 - ❖ Use equivalent period of previous year for registers with switched profiles
 - ❖ Use immediate previous period for registers with standard profiles
 - ❖ Profiles 1 and 3 are standard, profiles 2 and 4 are switched
- ❖ **Following provisions continue to apply**
 - ❖ Base period must be a minimum length
 - Minimum to be reviewed, NIE tends to be shorter than ESB
 - ❖ Period length weighting to be applied using profiles
 - ❖ If no period can be found matching criteria NIE will continue to use trend default
 - Default values in NIE are dynamically maintained by type of installation
 - ESB uses static default values
- ❖ **Estimating approach proposed above more closely aligns to ESB approach**
 - ❖ ESB can optionally use equivalent period of previous year
 - ❖ Approach has been shown to deliver accurate results
 - ❖ EAC / Profile approaches tend to inaccuracy at the individual Meter Point level

Data Processing – Estimation Application

- ❖ **To align with RoI; NIE will apply the method described on the previous slide in all the following circumstances:**
 - ❖ Estimation for DUoS billing when there is no scheduled read
 - Excluding single rate keypad metering
 - ❖ Estimation for Change of Supplier; including disputes
 - ❖ Estimation when a closing read at meter removal, exchange, replacement or de-energisation cannot be obtained or validated
 - ❖ Estimation to complete a set of readings when there are missing or invalid reads (so that the valid reads can be used)
 - ❖ Estimation for meter read validation
- ❖ **NIE do not currently propose to use the above method to estimate readings**
 - ❖ When interpolation is to be used
- ❖ **NIE do not estimate in the following circumstances**
 - ❖ Change of legal entity (unless Change of Supplier is also occurring)
 - ❖ Change of usage (unless a DUoS estimate is being re-used)
 - ❖ These areas are not aligned with ESB

Data Processing – Meter Read Validation

- ❖ **NIE propose to modify validation routines as follows**
 - ❖ To introduce a deminimus advance below which any advance on an energised meter will be considered valid
 - ❖ This will more closely align with a similar routine in RoI
- ❖ **NIE will review high limits above which a meter advance must be manually confirmed**
 - ❖ In both NI and RoI high limits are based on a multiple of expected consumption estimated as previously described
 - ❖ Currently these limits vary between NIE and ESBN
 - (for example HHU/HHT limits are tighter in NI than in RoI)

Data Processing – Estimation Application

- ❖ **Settlement Relevant Estimates**
 - ❖ When an estimate is settlement relevant usage factors are calculated and communicated using messages 300, 306, 307, 310, 320 or 332
- ❖ **Estimates are settlement relevant in NI and RoI when they are made:**
 - ❖ for Change of Supplier; including disputes
 - ❖ when a closing read at meter removal, exchange, replacement or de-energisation cannot be obtained or validated
 - ❖ to complete a set of readings when there are missing or invalid reads
 - (so that other valid reads can be used)
 - ❖ for a Change of Usage

Data Processing – Usage Factors

- ❖ Calculation method for AUF (ESB) and AAC (NIE) aligns
- ❖ Calculation method for EUF (ESB) and EAC (NIE) does not align
 - ❖ ESB use weighted average of previous 365 days AUF
 - ❖ NIE extrapolate from reading greater 46 weeks old
 - ❖ Methods align if consumption follows profile or base period is 365 days
 - ❖ Both methods show minor deviations if consumption does not follow profile and base period is not exactly 365 days
 - ❖ No proposal to change as both methods relatively accurate
 - However; NIE does not oppose adoption of weighted AUF using profile
- ❖ NIE will retain proposal to set EAC to zero for long term vacant sites as described for the Enduring Solution
 - ❖ When site becomes re-occupied EAC reset and message 300 is sent even if no reading

Data Processing – Usage Factors

- ❖ **NIE proposes removal of usage factors at register level**
 - ❖ UFs will be provided at Meter Point/*Timeslot* level but not Register level
 - ❖ Working practice will be developed to address issues that may arise
 - Similar to WP005 implemented by ESB
- ❖ **No Suppliers required retention of usage factors at register level**
- ❖ **However; two issues were raised by Suppliers: to resolve these**
 - ❖ Estimated consumption will be provided on message 320 at register level to help in first bill calculation
 - ❖ On message 332 when there is new metering or a new connection with the same timeslot on more than one register
 - EUF will be provided at timeslot but not register level
 - Suppliers can divide the Timeslot EUF by the number of registers affected to obtain a register specific EUF
 - In general NIE should not be fitting these metering configurations in future
 - NIE cannot commit to holding a register specific EUF

Effective Dates

Type of Read (Read Reason)	Read Date (D)	AUF ends (ETD)	Next Period (EUF EFD)	Aligned
Customer, Supplier (26, 95) Special or Scheduled (01,02,09) Settlement Rel. Estimate (14)	Required or Read Date of Visit Sch. Read Date	D	D+1	Yes
New Meter / New Connection Opening Read (21)	Date of Meter Work	n/a	D	Yes
Meter Works / Meter Remains (11)	Date of Meter Work	D-1	D	Yes
Re-Energisation Read (18)	Date of Energisation	NI: D-1 RoI: D	NI: D RoI: D+1	No
Meter Closing Read (22; all meters removed)	Date of Removal	NI: D	n/a	Yes
Replaced / Reconfigured Meter Closing Read (16)	Date before Exchange	D-1	n/a Replaced D - Reconfigured	Yes
De-Energisation Read (13)	Date of De-Energisation	D	D+1 EAC = 0	Yes

Effective Dates – CoS and CoLE Reads

❖ **Change of Supplier**

- ❖ Reading and Required Date (D) on message 010
- ❖ Read Date = Required Date, at D, this is the Move Out Date
- ❖ New Supplier Move In is D+1, EUF effective from D+1

❖ **Change of Legal Entity**

- ❖ Reading and Required Date (D) on message 016
- ❖ Required Date is the Move In Date
- ❖ Reading is dated at D-1, the Move Out Date
- ❖ Move In Date is D, EUF effective from D

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Message 210 Supplier Provided Read Schema

Segment	Republic of Ireland 210						Northern Ireland 210						Comment		
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type		Pattern	Value
Top Level		MPRN	req	11	string	no	no		MPRN	req	11	string	no	no	
		MPBusinessReference	req	35	string	no	no		MPBusinessReference	req	35	string	no	no	
		ReadDate	req		Date				ReadDate	req		Date			
		ReadReasonCode	req	2	string	no	yes		ReadReasonCode	req	2	string	no	yes	
		SupplierMPID	req	3	string	no	no		SupplierMPID	req	3	string	no	no	
MeterID	reqM	MeterCategoryCode	opt	15V	string	no	no	reqM	MeterCategoryCode	opt	15V	string	no	no	
		SerialNumber	req	9	string	no	no		SerialNumber	req	9	string	no	no	Last 4 digits req. in Rol
	SupplierProvidedRead	reqM	MeterRegisterSequence	opt	3	string	no	reqM	MeterRegisterSequence	opt	3	string	no	no	
		TimeslotCode	opt	10V	string	no	yes		TimeslotCode	opt	10V	string	no	yes	Mandatory in NI
		ReadingValue	req	15.3	decimal	no	no		ReadingValue	req	15.3	decimal	no	no	
		ReadTypeCode	req	2	string	no	yes		ReadTypeCode	req	2	string	no	yes	
		RegisterTypeCode	opt	2F	string	no	yes		RegisterTypeCode	opt	2F	string	no	yes	Not used by NIE

Serial number mandatory on 210 (and 208) but remains optional on 010 and 016
 Message also contains Party Contact Details segment

Message 303R Rejection of Supplier Provided Read

- ❖ **Message 303R is used as a rejection of readings submitted using messages 010, 016 and 210**
- ❖ **Message 303R is issued when**
 - ❖ Meter details are incorrect
 - ❖ Readings are dated prior to the last DUoS bill
- ❖ **NIE will also issue message 303R when meter reads are implausible**
 - ❖ ESB do not issue message 303R solely for this reason
- ❖ **Available Meter ID segment contain the actual metering details provided when message 303R is issued in response:**
 - ❖ to messages 010 and 016
 - ❖ to message 210 when the meter details provided were incorrect

Message 303R Schema

Republic of Ireland 303R

Segment	Use	Field	Use	Chars	Type	Pattern	Value	Comment
Top Level		MPRN	req	11	string	no	no	
		SupplierMPID	req	3	string	no	no	
		MPBusinessReference	req	35	string	no	no	
		ReadDate	req		Date			
		ReadReasonCode	req	2	string	no	yes	
MeterID	reqM	MeterCategoryCode	opt	15V	string	no	no	
		SerialNumber	opt	9	string	no	no	
	SupplierProvidedRead	reqM	MeterRegisterSequence	opt	3	string	no	
		TimeslotCode	opt	10V	string	no	yes	
		ReadingValue	req	15.3	decimal	no	no	
		ReadTypeCode	req	2	string	no	yes	SC in response to 010, 016
		RegisterTypeCode	opt	2	string	no	yes	
RejectionDetails	reqM	RejectReasonCode	req	2-3	string	no	yes	
AvailableMeterID	optM	MeterCategoryCode	opt	15V	string	no	no	Category not used by NIE
		SerialNumber	req	9	string	no	no	
AvailableRegisterID	reqM	MeterRegisterSequence	req	3	string	no	no	
		TimeslotCode	req	10V	string	no	yes	
		RegisterTypeCode	req	2	string	no	yes	Code sets differ

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Message 300 Meter Reading Schema (MPRN, Usage Factor and Remarks)

Segment	Republic of Ireland 300						Northern Ireland 300							
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no		MPRN	req	11	string	no	no
		MPBusinessReference	opt	35	string	no	no		MPBusinessReference	opt	35	string	no	no
		NetworksReferenceNumber	req	35	string	no	no		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3V	string	no	yes		LoadProfileCode	req	3V	string	no	yes
		DUOS_Group	req	4V	string	no	yes		DUOS_Group	req	4V	string	no	yes
		MeterPointStatusCode	req	2V	string	no	yes		MeterPointStatusCode	req	2V	string	no	yes
		ReadDate	req			Date			ReadDate	req			Date	
UsageFactors	optM	TimeslotCode	req	10V	string	no	yes	optM	TimeslotCode	req	10V	string	no	yes
		EffectiveFromDate	req			Date			EffectiveFromDate	req			Date	
		ActualUsageFactor	opt	15,8	decimal	no	no		ActualUsageFactor	opt	15,8	decimal	no	no
		EstimatedUsageFactor	opt	15,8	decimal	no	no		EstimatedUsageFactor	opt	15,8	decimal	no	no
MeterReaderRemarks	optM	MeterReaderRemarkCode	req	tbc	string	no	yes	optM	MeterReaderRemarkCc	req	tbc	string	no	yes
		MeterReaderRemarks	opt	tbc	string	no	no		MeterReaderRemarks	opt	tbc	string	no	no

Meter reader remarks used for now vacant / now occupied

Message 300 Meter Reading Schema (Meter and Register)

Segment	Republic of Ireland 300					Northern Ireland 300					Comment		
	Use	Field	Use	Chars	Type Pattern Value	Use	Field	Use	Chars	Type Pattern Value			
MeterID	reqM	MeterCategoryCode	opt	15V	string no	no	reqM	MeterCategoryCode	opt	15V	string no	no	Not used by NIE
		SerialNumber	req	9	string no	no		SerialNumber	req	9	string no	no	
RegisterLevelInfo	reqM	MeterRegisterSequence	req	3	string no	no	reqM	MeterRegisterSequence	req	3	string no	no	
		TimeslotCode	req	10V	string no	yes		TimeslotCode	req	10V	string no	yes	
		UOM_Code	req	3	string no	yes		UOM_Code	req	3	string no	yes	
		MeterMultiplier	req	12,5	decimal no	no		MeterMultiplier	req	12,5	decimal no	no	
		ReadingValue	req	15,3	decimal no	no		ReadingValue	req	15,3	decimal no	no	
		ReadReasonCode	req	2	string no	yes		ReadReasonCode	req	2	string no	yes	
		ReadTypeCode	req	2	string no	yes		ReadTypeCode	req	2	string no	yes	
		PreviousReadDate	req		Date			PreviousReadDate	req		Date		
		Consumption	opt	15,3	decimal no	no		Consumption	opt	15,3	decimal no	no	
		ReadStatusCode	req	4	string no	yes		ReadStatusCode	req	4	string no	yes	
		RegisterTypeCode	req	2	string no	yes		RegisterTypeCode	req	2	string no	yes	Code sets differ
		Missing						EstimatedUsageFactor				to be removed from schema	
		Missing						AnnualisedActualConsu				to be removed from schema	

Message 300S Special Read (MPRN, Usage Factor and Remarks)

Segment	Republic of Ireland 300S						Northern Ireland 300S							
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no		MPRN	req	11	string	no	no
		MPBusinessReference	opt	35	string	no	no		MPBusinessReference	opt	35	string	no	no
		NetworksReferenceNumber	req	35	string	no	no		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3V	string	no	yes		LoadProfileCode	req	3V	string	no	yes
		DUOS_Group	req	4V	string	no	yes		DUOS_Group	req	4V	string	no	yes
		MeterPointStatusCode	req	2V	string	no	yes		MeterPointStatusCode	req	2V	string	no	yes
		ReadDate	req			Date			ReadDate	req			Date	
UsageFactors	optM	TimeslotCode	req	10V	string	no	yes	optM	TimeslotCode	req	10V	string	no	yes
		EffectiveFromDate	req			Date			EffectiveFromDate	req			Date	
		ActualUsageFactor	opt	15,8	decimal	no	no		ActualUsageFactor	opt	15,8	decimal	no	no
		EstimatedUsageFactor	opt	15,8	decimal	no	no		EstimatedUsageFactor	opt	15,8	decimal	no	no

Meter ID and Register Data are the same as for message 300

Message 305 Estimate Schema

Republic of Ireland 305							
Segment	Use	Field	Use	Chars	Type Pattern	Value	Comment
Top Level		MPRN	req	11	string no	no	
		MPBusinessReference	opt	35	string no	no	
		NetworksReferenceNumber	req	35	string no	no	
		DUOS_Group	req	4V	string no	yes	
		MeterPointStatusCode	req	2V	string no	yes	
		ReadDate	req		Date		
		NoReadCode	req	3	string no	yes	
		DebitReEst	opt	bool	boolean no	no	
MeterReaderRemarks	optM	MeterReaderRemarkCode	req	tbc	string no	yes	
		MeterReaderRemarks	opt	tbc	string no	no	
MeterID	reqM	MeterCategoryCode	opt	15V	string no	no	Not used by NIE
		SerialNumber	req	9	string no	no	
RegisterLevelInfo	reqM	MeterRegisterSequence	req	3	string no	no	
		TimeslotCode	req	10V	string no	yes	
		UOM_Code	req	3	string no	yes	
		MeterMultiplier	req	12,5	decimal no	no	
		ReadingValue	req	15,3	decimal no	no	
		ReadReasonCode	req	2	string no	yes	
		ReadTypeCode	req	2	string no	yes	
		PreviousReadDate	req		Date		
		Consumption	opt	15,3	decimal no	no	
		RegisterTypeCode	req	2	string no	yes	Code sets differ

Used for non-settlement relevant estimates

Therefore does not contain load profile (any profile change would be settlement relevant)

Read status code, proposed by NIE in Enduring Solution, is not provided as has only one value

Message 306 De-Energisation Schema Message 307 Re-Energisation Schema (MPRN and Usage Factors)

Segment	Republic of Ireland 320						Northern Ireland 320						
	Use	Field	Use	Chars	Type Pattern	Value	Use	Field	Use	Chars	Type Pattern	Value	Comment
Top Level		MPRN	req	11	string no	no		MPRN	req	11	string no	no	
		MPBusinessReference	opt	35	string no	no		MPBusinessReference	opt	35	string no	no	
		NetworksReferenceNumber	req	35	string no	no		NetworksReferenceNumber	req	35	string no	no	
		LoadProfileCode	req	3	string no	yes		LoadProfileCode	req	3	string no	yes	
		DUOS_Group	req	4	string no	yes		DUOS_Group	req	4	string no	yes	
		MeterPointStatusCode	req	2	string no	yes		MeterPointStatusCode	req	2	string no	yes	
		ReadDate	req		Date			ReadDate	req		Date		
		MeterConfigurationCode	req	10	string no	yes		MeterConfigurationCode	req	10	string no	yes	
	KeypadPremiseNumber	opt	19F	string yes	no		KeypadPremiseNumber	opt	19F	string yes	no	Not used by ESB	
UsageFactors	reqM	TimeslotCode	req	10	string no	yes	reqM	TimeslotCode	req	10	string no	yes	
		EffectiveFromDate	req		Date			EffectiveFromDate	req		Date		
		EstimatedUsageFactor	opt	15,8	decimal no	no		EstimatedUsageFactor	opt	15,8	decimal no	no	NIE will always populate

Meter ID and Register Data are the same as for message 300

Message 310 CoS Closing Read Schema (MPRN and Usage Factors)

Segment	Republic of Ireland 310						Northern Ireland 310							
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no		MPRN	req	11	string	no	no
		NetworksReferenceNumber	req	35	string	no	no		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3	string	no	yes		LoadProfileCode	req	3	string	no	yes
		DUOS_Group	req	4	string	no	yes		DUOS_Group	req	4	string	no	yes
		MeterPointStatusCode	req	2	string	no	yes		MeterPointStatusCode	req	2	string	no	yes
		ReadDate	req			Date			ReadDate	req			Date	
UsageFactors	optM	TimeslotCode	req	10	string	no	yes	optM	TimeslotCode	req	10	string	no	yes
		EffectiveFromDate	req			Date			EffectiveFromDate	req			Date	
		ActualUsageFactor	req	15,8	decimal	no	no		ActualUsageFactor	req	15,8	decimal	no	no

Meter ID and Register Data are the same as for message 300

Message 320 CoS Opening Read Schema (MPRN and Usage Factors)

Segment	Republic of Ireland 320						Northern Ireland 320							
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no		MPRN	req	11	string	no	no
		MPBusinessReference	opt	35	string	no	no		MPBusinessReference	opt	35	string	no	no
		NetworksReferenceNumber	req	35	string	no	no		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3	string	no	yes		LoadProfileCode	req	3	string	no	yes
		DUOS_Group	req	4	string	no	yes		DUOS_Group	req	4	string	no	yes
		MeterPointStatusCode	req	2	string	no	yes		MeterPointStatusCode	req	2	string	no	yes
		ReadDate	req			Date			ReadDate	req			Date	
		MeterConfigurationCode	req	10	string	no	yes		MeterConfigurationCode	req	10	string	no	yes
	KeypadPremiseNumber	opt	19F	string	yes	no		KeypadPremiseNumber	opt	19F	string	yes	no	
UsageFactors	reqM	TimeslotCode	req	10	string	no	yes	reqM	TimeslotCode	req	10	string	no	yes
		EffectiveFromDate	req			Date			EffectiveFromDate	req			Date	
		EstimatedUsageFactor	opt	15,8	decimal	no	no		EstimatedUsageFactor	opt	15,8	decimal	no	no

Message 320 CoS Opening Read Schema (Meter ID and Register Data)

Segment	Republic of Ireland 320						Northern Ireland 320						Comment		
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type		Pattern	Value
MeterID	reqM	MeterCategoryCode	opt	15V	string	no	no	reqM	MeterCategoryCode	opt	15V	string	no	no	Not used by NIE
		SerialNumber	req	9	string	no	no		SerialNumber	req	9	string	no	no	
		MeterLocationCode	opt	3V	string	no	yes		MeterLocationCode	opt	3V	string	no	yes	
RegisterLevelInfo	reqM	MeterRegisterSequence	req	3	string	no	no	reqM	MeterRegisterSequence	req	3	string	no	no	
		TimeslotCode	req	10	string	no	yes		TimeslotCode	req	10	string	no	yes	
		UOM_Code	req	3	string	no	yes		UOM_Code	req	3	string	no	yes	
		MeterMultiplier	req	12,5	decimal	no	no		MeterMultiplier	req	12,5	decimal	no	no	
		ReadingValue	req	15,3	decimal	no	no		ReadingValue	req	15,3	decimal	no	no	
		ReadReasonCode	req	2	string	no	yes		ReadReasonCode	req	2	string	no	yes	
		ReadTypeCode	req	2	string	no	yes		ReadTypeCode	req	2	string	no	yes	
		RegisterTypeCode	req	2	string	no	yes		RegisterTypeCode	req	2	string	no	yes	Code sets differ
		Missing							EstimatedUsageFactor	to be removed from schema					
		PostDecimalDetails	req	1	string	yes	no		PostDecimalDetails	req	1	string	yes	no	NIE defaults values
	PreDecimalDetails	req	2	string	yes	no		PreDecimalDetails	req	2	string	yes	no	NIE defaults values	
	EstimatedConsumption	opt	15,3	decimal	no	no		EstimatedConsumption	opt	15,3	decimal	no	no		

Estimated consumption provides details for first customer bill. It will be calculated by NIE using the same approach as an EUF

Message 332 Meter Works Schema (MPRN and Usage Factors)

Segment	Republic of Ireland 332						Northern Ireland 332						Comment		
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type		Pattern	Value
Top Level		MPRN	req	11	string	no	no		MPRN	req	11	string	no	no	
		MPBusinessReference	opt	35	string	no	no		MPBusinessReference	opt	35	string	no	no	
		NetworksReferenceNumber	opt	35	string	no	no		NetworksReferenceNumber	opt	35	string	no	no	NIE will always populate
		LoadProfileCode	req	3	string	no	yes		LoadProfileCode	req	3	string	no	yes	
		DUOS_Group	req	4	string	no	yes		DUOS_Group	req	4	string	no	yes	
		MeterPointStatusCode	req	2	string	no	yes		MeterPointStatusCode	req	2	string	no	yes	
		EffectiveFromDate	req			Date			EffectiveFromDate	req			Date		
		MeterConfigurationCode	req	10	string	no	yes		MeterConfigurationCode	req	10	string	no	yes	
		KeypadPremiseNumber	opt	19F	string	yes	no		KeypadPremiseNumber	opt	19F	string	yes	no	Not used by ESB
UsageFactors	optM	TimeslotCode	req	10	string	no	yes	optM	TimeslotCode	req	10	string	no	yes	
		EffectiveFromDate	req			Date			EffectiveFromDate	req			Date		
		ActualUsageFactor	opt	15,8	decimal	no	no		ActualUsageFactor	opt	15,8	decimal	no	no	
		EstimatedUsageFactor	opt	15,8	decimal	no	no		EstimatedUsageFactor	opt	15,8	decimal	no	no	

Generally AUF are not present for a New Connection

Generally EUF are not present when all meters are removed

Harmonisation Working Group

Message 332 Meter Works Schema (Removed Meters)

Segment	Republic of Ireland 332						Northern Ireland 332						Comment		
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type		Pattern	Value
RemovedMeterRegisters	optM	MeterCategoryCode	opt	15V	string	no	no	optM	MeterCategoryCode	opt	15V	string	no	no	Not used by NIE
		SerialNumber	req	9	string	no	no		SerialNumber	req	9	string	no	no	
		ExchangedMeterReference	opt	18	string	no	no		ExchangedMeterReference	opt	18	string	no	no	
RegisterLevelInfo	optM	MeterRegisterSequence	req	3	string	no	no	optM	MeterRegisterSequence	req	3	string	no	no	
		TimeslotCode	req	10	string	no	yes		TimeslotCode	req	10	string	no	yes	
		UOM_Code	req	3	string	no	yes		UOM_Code	req	3	string	no	yes	
		MeterMultiplier	req	12,5	decimal	no	no		MeterMultiplier	req	12,5	decimal	no	no	
		ReadingValue	req	15,3	decimal	no	no		ReadingValue	req	15,3	decimal	no	no	
		ReadReasonCode	req	2	string	no	yes		ReadReasonCode	req	2	string	no	yes	
		ReadTypeCode	req	2	string	no	yes		ReadTypeCode	req	2	string	no	yes	
		PreviousReadDate	req		Date				PreviousReadDate	req		Date			
		Consumption	opt	15,3	decimal	no	no		Consumption	opt	15,3	decimal	no	no	
		PostDecimalDetails	opt	1	string	yes	no		PostDecimalDetails	opt	1	string	yes	no	NIE defaults values
		PreDecimalDetails	opt	2	string	yes	no		PreDecimalDetails	opt	2	string	yes	no	NIE defaults values
		RegisterTypeCode	req	2	string	no	yes		RegisterTypeCode	req	2	string	no	yes	Code sets differ
		ReadStatusCode	req	4	string	no	yes		ReadStatusCode	req	4	string	no	yes	
		Missing							AnnualisedActualConsumption						to be removed from schema

Harmonisation Working Group

Message 332 Meter Works Schema (New Meters)

Segment	Republic of Ireland 332						Northern Ireland 332						Comment			
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type		Pattern	Value	
NewMeterRegisters	optM	MeterCategoryCode	opt	15V	string	no	no	optM	MeterCategoryCode	opt	15V	string	no	no	Not used by NIE	
		SerialNumber	req	9	string	no	no		SerialNumber	req	9	string	no	no		
		MeterLocationCode	opt	3	string	no	yes		MeterLocationCode	opt	3	string	no	yes		NIE may not populate
		ExchangedMeterReference	opt	18	string	no	no		ExchangedMeterReference	opt	18	string	no	no		
RegisterLevelInfo	optM	MeterRegisterSequence	req	3	string	no	no	optM	MeterRegisterSequence	req	3	string	no	no		
		TimeslotCode	req	10	string	no	yes		TimeslotCode	req	10	string	no	yes		
		UOM_Code	req	3	string	no	yes		UOM_Code	req	3	string	no	yes		
		MeterMultiplier	req	12,5	decimal	no	no		MeterMultiplier	req	12,5	decimal	no	no		
		ReadingValue	req	15,3	decimal	no	no		ReadingValue	req	15,3	decimal	no	no		
		ReadReasonCode	req	2	string	no	yes		ReadReasonCode	req	2	string	no	yes		
		ReadTypeCode	req	2	string	no	yes		ReadTypeCode	req	2	string	no	yes		
		PostDecimalDetails	req	1	string	yes	no		PostDecimalDetails	req	1	string	yes	no	NIE defaults values	
		PreDecimalDetails	req	2	string	yes	no		PreDecimalDetails	req	2	string	yes	no	NIE defaults values	
		RegisterTypeCode	req	2	string	no	yes		RegisterTypeCode	req	2	string	no	yes	Code sets differ	
	Missing							EstimatedUsageFactor						to be removed from schema		

Message 332 Meter Works Schema (Retained Meters)

Republic of Ireland 332							
Segment	Use	Field	Use	Chars	Type	Pattern	Value
RetainedMeterRegisters	optM	MeterCategoryCode	opt	15V	string	no	no
		SerialNumber	req	9	string	no	no
RegisterLevelInfo	optM	MeterRegisterSequence	req	3	string	no	no
		TimeslotCode	req	10	string	no	yes
		UOM_Code	req	3	string	no	yes
		MeterMultiplier	req	12,5	decimal	no	no
		ReadingValue	req	15,3	decimal	no	no
		ReadReasonCode	req	2	string	no	yes
		ReadTypeCode	req	2	string	no	yes
		PreviousReadDate	req			Date	
		Consumption	opt	15,3	decimal	no	no
		PostDecimalDetails	opt	1	string	yes	no
		PreDecimalDetails	opt	2	string	yes	no
		RegisterTypeCode	req	2	string	no	yes
		ReadStatusCode	req	4	string	no	yes

Segment will be introduced into NI schema and used for retained meters
 Currently NI would produce both a new meter and removed meter
 segment for any retained meters

Message 300W Withdrawn Reading Schema (MPRN Level)

Segment	Republic of Ireland 300W						Northern Ireland 300W							
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no		MPRN	req	11	string	no	no
		MPBusinessReference	opt	35	string	no	no		MPBusinessReference	opt	35	string	no	no
		NetworksReferenceNumber	req	35	string	no	no		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3(str)	string	no	yes		LoadProfileCode	req	3(str)	string	no	yes
		DUOS_Group	req	4V	string	no	yes		DUOS_Group	req	4V	string	no	yes
		MeterPointStatusCode	req	2V	string	no	yes		MeterPointStatusCode	req	2V	string	no	yes
		ReadDate	req			Date			ReadDate	req			Date	
		WithdrawalReasonCode	req	2	string	no	yes		WithdrawalReasonCode	req	2	string	no	yes

Message 300W Withdrawn Reading Schema (Meter ID and Register Data)

Segment	Republic of Ireland 300W						Northern Ireland 300W							
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type	Pattern	Value
MeterID	reqM	MeterCategoryCode	opt	15V	string	no	no	reqM	MeterCategoryCode	opt	15V	string	no	no
		SerialNumber	req	9	string	no	no		SerialNumber	req	9	string	no	no
RegisterLevelInfo	reqM	MeterRegisterSequence	req	3	string	no	no	reqM	MeterRegisterSequence	req	3	string	no	no
		TimeslotCode	req	10V	string	no	yes		TimeslotCode	req	10V	string	no	yes
		UOM_Code	req	3	string	no	yes		UOM_Code	req	3	string	no	yes
		MeterMultiplier	req	12,5	decimal	no	no		MeterMultiplier	req	12,5	decimal	no	no
		ReadingValue	req	15,3	decimal	no	no		ReadingValue	req	15,3	decimal	no	no
		ReadReasonCode	req	2	string	no	yes		ReadReasonCode	req	2	string	no	yes
		ReadTypeCode	req	2	string	no	yes		ReadTypeCode	req	2	string	no	yes
		PreviousReadDate	req		Date				PreviousReadDate	req		Date		
		Consumption	opt	15,3	decimal	no	no		Consumption	opt	15,3	decimal	no	no
		ReadStatusCode	req	4	string	no	yes		ReadStatusCode	req	4	string	no	yes
		RegisterTypeCode	req	2	string	no	yes		RegisterTypeCode	req	2	string	no	yes
		Missing							AnnualisedActualConsumption					to be removed from schema

Meter ID and Register Data schema are the same as for message 300
This was not previously the case in NI

Message 306W Withdrawn De-Energisation Schema Message 307W Withdrawn Re-Energisation Schema (MPRN Level)

Republic of Ireland 306W/307W

Segment	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no
		MPBusinessReference	opt	35	string	no	no
		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3(str)	string	no	yes
		DUOS_Group	req	4V	string	no	yes
		MeterPointStatusCode	req	2V	string	no	yes
		EffectiveFromDate	req		Date		
		WithdrawalReasonCode	req	2	string	no	yes

Replaces message 300W in NI

Read date will no longer be available in NI

Meter ID and Register Data are the same as for message 300W

Message 310W Withdrawn CoS Read Schema (MPRN Level)

Republic of Ireland 310W							
Segment	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no
		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3(str)	string	no	yes
		DUOS_Group	req	4V	string	no	yes
		MeterPointStatusCode	req	2V	string	no	yes
		WithdrawalReasonCode	req	2	string	no	yes
		ReadDate	req			Date	

Replaces message 300W in NI

Meter ID and Register Data are the same as for message 300W

Message 320W Withdrawn CoS Read Schema (MPRN Level)

Republic of Ireland 320W

Segment	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no
		MPBusinessReference	opt	35	string	no	no
		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3(str)	string	no	yes
		DUOS_Group	req	4V	string	no	yes
		MeterPointStatusCode	req	2V	string	no	yes
		ReadDate	req		Date		
		WithdrawalReasonCode	req	2	string	no	yes
		MeterConfigurationCode	req	10V	string	no	yes
	KeypadPremiseNumber	opt	19F	string	yes	no	

Replaces message 300W in NI

Message 320W Withdrawn CoS Read Schema (Meter and Register Level)

Republic of Ireland 320W							
Segment	Use	Field	Use	Chars	Type	Pattern	Value
MeterID	reqM	MeterCategoryCode	opt	15V	string	no	no
		SerialNumber	req	9	string	no	no
		MeterLocationCode	opt	3V	string	no	yes
RegisterLevelInfo	reqM	MeterRegisterSequence	req	3	string	no	no
		TimeslotCode	req	10V	string	no	yes
		UOM_Code	req	3	string	no	yes
		MeterMultiplier	req	12,5	decimal	no	no
		ReadingValue	req	15,3	decimal	no	no
		ReadReasonCode	req	2	string	no	yes
		ReadTypeCode	req	2	string	no	yes
		RegisterTypeCode	req	2F	string	no	yes
		PostDecimalDetails	req	1V	string	yes	no
PreDecimalDetails	req	2V	string	yes	no		

Replaces message 300W in NI

Message 332W Withdrawn Meter Works Schema (MPRN Level)

Republic of Ireland 332W							
Segment	Use	Field	Use	Chars	Type	Pattern	Value
Top Level		MPRN	req	11	string	no	no
		MPBusinessReference	opt	35	string	no	no
		NetworksReferenceNumber	req	35	string	no	no
		LoadProfileCode	req	3(str)	string	no	yes
		DUOS_Group	req	4V	string	no	yes
		MeterPointStatusCode	req	2V	string	no	yes
		EffectiveFromDate	req		Date		
		MeterConfigurationCode	req	10	string	no	yes
		WithdrawalReasonCode	req	2F	string	no	yes
		KeypadPremiseNumber	opt	19F	string	yes	no

Replaces message 300W in NI

Read date will no longer be available in NI

Removed, new and retained meter segments follow the same format as 332

Usage factors will be removed from ESB message 332W (they are not used)

CoS Reading Dispute

- ❖ **NIE will introduce message 208 to enable a Supplier to submit a replacement reading to settle a CoS dispute**
 - ❖ Only one Supplier is required to submit the 208 message
 - ❖ NIE MRS will contact the other Supplier to obtain agreement
 - ❖ Assuming agreement responses are:
 - 310W and 310 to Old Supplier
 - 320W and 320 to New Supplier
- ❖ **NIE will also introduce a usage of message 252 to request an estimate to resolve a CoS reading dispute (read type E; reason 04)**
 - ❖ Message used for this purpose in Rol with read type E
 - ❖ NIE MRS will contact the other Supplier to obtain agreement to use of an estimate
 - ❖ Estimates are created by NIE through interpolation from an actual read following CoS.
 - ❖ Actual readings can be next scheduled read or a special read
 - ❖ Message 252 is requesting a special read (which may be chargeable)
 - Interpolation from a scheduled read must be requested manually in NI
 - ❖ Responses to the interpolated estimated CoS read are as per 208
- ❖ **NIE will update AP 102 to accommodate use of these messages**
- ❖ ***NB: In general where an actual read is less than an estimated or Supplier provided customer reading used for a Change of Supplier, the Change of Supplier reading will be reversed and replaced***

Message 208 Replacement Reading Schema

		Republic of Ireland 208						
Segment	Use	Field	Use	Chars	Type	Pattern	Value	Comment
Top Level		MPRN	req	11	string	no	no	
		MPRNBusinessReference	req	35	string	no	no	
		ReadDate	req		Date			
		ReadReasonCode	req	2	string	no	yes	
		SupplierMPID	req	3	string	no	no	
MeterID	reqM	MeterCategoryCode	opt	15V	string	no	no	
		SerialNumber	req	9	string	no	no	Last 4 digits req. in Rol
ReplacementReadings	reqM	MeterRegisterSequence	opt	3	string	no	no	
		TimeslotCode	opt	10	string	no	yes	Mandatory in NI
		ReadingValue	req	15,3	decimal	no	no	
		ReadTypeCode	req	2	string	no	yes	
		RegisterTypeCode	opt	2F	string	no	yes	Not used by NIE

Serial number mandatory on 208 (and 210) but remains optional on 010 and 016
 Message also contains Party Contact Details segment

Message 331 Interval Meter – ex Meter Works & CoS

Segment	Republic of Ireland 331						Northern Ireland 331								
	Use	Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type	Pattern	Value	Comment
Top Level		MPRN	req	11	string	no	no		MPRN	req	11	string	no	no	
		MPBusinessReference	opt	35	string	no	no		MPBusinessReference	opt	35	string	no	no	
		NetworksReferenceNumber	opt	35	string	no	no		NetworksReferenceNumber	opt	35	string	no	no	
		DUOS_Group	req	4	string	no	yes		DUOS_Group	req	4	string	no	yes	
		MeterPointStatusCode	req	2	string	no	yes		MeterPointStatusCode	req	2	string	no	yes	
		EffectiveFromDate	req			Date			EffectiveFromDate	req			Date		
		MeterConfigurationCode	opt	10	string	no	yes		MeterConfigurationCode	opt	10	string	no	yes	NIE will always populate
NewMeterRegisters	optM	MeterCategoryCode	opt	15	string	no	no	optM	MeterCategoryCode	opt	15	string	no	no	Not used by NIE
		SerialNumber	req	9	string	no	no		SerialNumber	req	9	string	no	no	
		MeterLocationCode	opt	3	string	no	yes		MeterLocationCode	opt	3	string	no	yes	
		ExchangedMeterReference	opt	18	string	no	no		ExchangedMeterReference	opt	18	string	no	no	Not used by NIE
RegisterChannelInformation	reqM	MeteringInterval	req	4	string	no	no	reqM	MeteringInterval	req	4	string	no	no	
		RegisterTypeCode	req	2	string	no	yes		RegisterTypeCode	req	2	string	no	yes	
		UOM_Code	req	3	string	no	yes		UOM_Code	req	3	string	no	yes	
RemovedMeterRegisters	optM	MeterCategoryCode	opt	15	string	no	no	optM	MeterCategoryCode	opt	15	string	no	no	Not used by NIE
		SerialNumber	req	9	string	no	no		SerialNumber	req	9	string	no	no	
		ExchangedMeterReference	opt	18	string	no	no		ExchangedMeterReference	opt	18	string	no	no	Not used by NIE

Message 341 Interval Import Schema

Republic of Ireland 341

Northern Ireland 341

Field	Use	Chars	Type	Pattern	Value	Use	Field	Use	Chars	Type	Pattern	Value	Comment
MPRN	req	11	string	no	no	reqM	MPRN	req	11	string	no	no	
ReadDate	req		Date				ReadDate	req		Date			
TransformerLossFactor	opt	6,4	decimal	no	no		TransformerLossFactor	opt	6,4	decimal	no	no	
GeneratorMPID		to be removed from schema					Missing						
GenerationUnitID		to be removed from schema					Missing						
AlertFlag	req	2	string	no	yes		AlertFlag	req	2	string	no	yes	In lieu of NIE ChannelStatus
ReadingReplacementVersionNumber	req	2D	int	no	no		ReadingReplacementVersionNumber	req	2D	int	no	no	
MeterCategoryCode	opt	15V	string	no	no	reqM	MeterCategoryCode	opt	15V	string	no	no	
SerialNumber	req	9	string	no	no		SerialNumber	req	9	string	no	no	
MeteringInterval	req	4	int	no	no	reqM	MeteringInterval	req	4	int	no	no	
RegisterTypeCode	req	2	string	no	yes		RegisterTypeCode	req	2	string	no	yes	
UOM_Code	req	3	string	no	yes		UOM_Code	req	3	string	no	yes	
Missing							ChannelStatus		to be removed from schema				Replaced by AlertFlag
IntervalValue	req	9,3	decimal	no	no	reqM	IntervalValue	req	9,3	decimal	no	no	
IntervalPeriodTimeStamp	req		Datetime				IntervalPeriodTimeStamp	req		Datetime			
IntervalStatusCode	req	4	string	no	yes		IntervalStatusCode	req	4	string	no	yes	
NetActiveDemandValue	opt	9,3	decimal	no	no		NetActiveDemandValue	opt	9,3	decimal	no	no	
MPRNCOUNT	req	6	int	no	no	req	MPRNCOUNT	req	6	int	no	no	
ChannelCount	req	6	int	no	no		ChannelCount	req	6	int	no	no	

Alert Flag replaces Channel Status in NI (channel status had valid and invalid status codes)

Note NIE accumulate data from multiple outstations into one record

Message 342 Interval Export Schema

Republic of Ireland 342								
Segment	Use	Field	Use	Chars	Type	Pattern	Value	Comment
MPRNLevelInfo	reqM	MPRN	req	11	string	no	no	
		ReadDate	req		Date			
		TransformerLossFactor	opt	6,4	decimal	no	no	
		GeneratorMPID	opt	4F	string	yes	no	
		GenerationUnitID	opt	9V	string	no	no	
		AlertFlag	req	2	string	no	yes	In lieu of NIE ChannelStatus
		ReadingReplacementVersionNumber	req	2D	int	no	no	
MeterID	reqM	MeterCategoryCode	opt	15V	string	no	no	
		SerialNumber	req	9	string	no	no	
ChannellInfo	reqM	MeteringInterval	req	4	int	no	no	
		RegisterTypeCode	req	2	string	no	yes	
		UOM_Code	req	3	string	no	yes	
IntervallInfo	reqM	IntervalValue	req	9,3	decimal	no	no	
		IntervalPeriodTimeStamp	req		Datetime			
		IntervalStatusCode	req	4	string	no	yes	
		NetActiveDemandValue	opt	9,3	decimal	no	no	
MessageTrailer	req	MPRNCount	req	6	int	no	no	
		ChannelCount	req	6	int	no	no	

Note NIE accumulate data from multiple outstations into one record

Unmetered Supplies

- ❖ **NIE will introduce the following messages**
 - ❖ Message 701 Unmetered Consumption
 - Will be used by NIE as a result of Billing including CoS Loss
 - ❖ Messages 700W and 701W – Withdrawn Inventory/Consumption
- ❖ **Messages 700 was already introduced by Enduring Solution**
 - ❖ Will be further used to communicate changes after energisations/de-energisations have occurred
- ❖ **Unmetered processes will remain unchanged in NIE for**
 - ❖ Annual confirmation
 - ❖ Inventory update
 - ❖ Inventory splits
 - ❖ Inventory clarifications

Unmetered Supplies - Data

- ❖ **Decisions on consumption determination remain open**
 - ❖ ESB use Burning Hours Calendar
 - ❖ NIE may use Burning Hours or Profile depending on Procured System
 - ❖ Methods are Equivalent

- ❖ **NIE will not populate Group MPRN**
 - ❖ Group MPRN is optional field
 - ❖ NIE does not group unmetered MPRNs
 - ❖ Technical MPRN will always be populated
 - This MPRN should also be used on registration messaging

Use of 700 series messages

❖ **Message 700**

- ❖ New unmetered connection
- ❖ Change of inventory
- ❖ Change of Supplier - Gain

❖ **Message 701**

- ❖ Monthly billing
- ❖ Change of Supplier - Loss

❖ **Message 700W**

- ❖ Billing reversal across a change of inventory
- ❖ Billing reversal across a Change of Supplier - Gain

❖ **Message 701W**

- ❖ Billing reversal across monthly billing
- ❖ Billing reversal across a Change of Supplier - Loss

Message 700 Unmetered Inventory Schema

Republic of Ireland 700								
Segment	Use	Field	Use	Chars	Type	Pattern	Value	Comments
Top Level		MPRN	req	11	string	no	no	
		GroupedMPRN	opt	11	string	no	no	not used in NI
		LoadProfileCode	req	3V	string	no	yes	
		DUOS_Group	req	4V	string	no	yes	
		MeterPointStatusCode	req	2V	string	no	yes	
		MeterConfigurationCode	req	10V	string	no	yes	
		NetworksReferenceNumber	req	35	string	no	no	
		TransactionReasonCode	req	3	string	no	yes	
		MaximumImportCapacity	req	9	int	no	no	
		PSOExemptionFlag	req		boolean	no	no	
		EffectiveFromDate	req		Date			
		ActualUsageFactor	req	15,8	decimal	no	no	
	ConsumptionDetail	reqM	ConsecutiveNumber	req	2	int	no	no
		UnmeteredTypeCode	req	4	string	no	no	
		InstalledValue	req	16,7	decimal	no	no	
		BillingValue	req	16,7	decimal	no	no	
		UOM_Code	req	3	string	no	yes	
		RepetitionFactor	req	4	int	no	no	

Message also contains Meter Point Address segment

Message 701 Unmetered Consumption Schema

Republic of Ireland 701							
Segment	Use	Field	Use	Chars	Type Pattern	Value	Comments
Top Level		MPRN	req	11	string no	no	
		GroupedMPRN	opt	11	string no	no	not used in NI
		LoadProfileCode	req	3	string no	yes	
		DUOS_Group	req	4V	string no	yes	
		MeterPointStatusCode	req	2V	string no	yes	
		MeterConfigurationCode	req	10V	string no	yes	
		NetworksReferenceNumber	req	35	string no	no	
		TransactionReasonCode	req	3	string no	yes	
		CalculationDate	req		Date		
		BillingStartDate	req		Date		
		BillingEndDate	req		Date		
		Consumption	req	15,3	decimal no	no	
	ConsumptionDetail	reqM	ConsecutiveNumber	req	2	int no	no
		UnmeteredTypeCode	req	4	string no	no	
		InstalledValue	req	16,7	decimal no	no	
		BillingValue	req	16,7	decimal no	no	
		UOM_Code	req	3	string no	yes	
		RepetitionFactor	req	4	int no	no	
		BillingStartDate	req		Date		
		BillingEndDate	req		Date		
		Consumption	req	15,3	decimal no	no	

Message 700W Withdrawn Inventory Schema

Republic of Ireland 700W							
Segment	Use	Field	Use	Chars	Type Pattern	Value	Comments
Top Level		MPRN	req	11	string no	no	
		GroupedMPRN	opt	11	string no	no	not used in NI
		LoadProfileCode	req	3V	string no	yes	
		DUOS_Group	req	4V	string no	yes	
		MeterPointStatusCode	req	2V	string no	yes	
		MeterConfigurationCode	req	10V	string no	yes	
		NetworksReferenceNumber	req	35	string no	no	
		TransactionReasonCode	req	3	string no	yes	
		MaximumImportCapacity	req	9	int no	no	
		PSOExemptionFlag	req		boolean no	no	
		EffectiveFromDate	req		Date		
		WithdrawalReasonCode	opt	2F	string no	yes	
ConsumptionDetail	reqM	ConsecutiveNumber	req	2	int no	no	
		UnmeteredTypeCode	req	4	string no	no	
		InstalledValue	req	16,7	decimal no	no	
		BillingValue	req	16,7	decimal no	no	
		UOM_Code	req	3	string no	yes	
		RepititionFactor	req	4	int no	no	

Message also contains Meter Point Address segment

Message 701W Withdrawn Consumption Schema

Republic of Ireland 701W								
Segment	Use	Field	Use	Chars	Type	Pattern	Value	Comments
Top Level		MPRN	req	11	string	no	no	
		GroupedMPRN	opt	11	string	no	no	not used in NI
		LoadProfileCode	req	3	string	no	yes	
		DUOS_Group	req	4V	string	no	yes	
		MeterPointStatusCode	req	2V	string	no	yes	
		MeterConfigurationCode	req	10V	string	no	yes	
		NetworksReferenceNumber	req	35	string	no	no	
		TransactionReasonCode	req	3	string	no	yes	
		CalculationDate	req			Date		
		BillingStartDate	req			Date		
		BillingEndDate	req			Date		
		Consumption	req	15,3	decimal	no	no	
		WithdrawalReasonCode	req	2F	string	no	yes	
ConsumptionDetail	reqM	ConsecutiveNumber	req	2	int	no	no	
		UnmeteredTypeCode	req	4	string	no	no	
		InstalledValue	req	16,7	decimal	no	no	
		BillingValue	req	16,7	decimal	no	no	
		UOM_Code	req	3	string	no	yes	
		RepetitionFactor	req	4	int	no	no	
		BillingStartDate	req			Date		
		BillingEndDate	req			Date		
		Consumption	req	15,3	decimal	no	no	

Data Aggregation - Messaging

- ❖ **NIE will provide Suppliers with the 59x series of aggregation messages**
 - ❖ Messages 591, 595, 596 and 598 to Suppliers
 - ❖ Messages 594 and 597 to Suppliers associated with participant generators
- ❖ **All responding Suppliers operating in the Rol market required consistency between Rol and NI and require messaging in order to:**
 - ❖ Reconcile settlement
 - ❖ Reconcile purchases from generators
 - ❖ Transact business with deminimus generators
- ❖ **At least one Supplier preferred retention of NIE secure server files**
- ❖ **A potential design solution is to:**
 - ❖ Retain the current aggregation processes to generate secure server files
 - ❖ Use the secure server files as an input to generating market messages
- ❖ **Consequently NIE also proposes to retain the secure server files**

Message 591 SU NHH/NQH Aggregation

Segment	Use	Field	Use	Chars	Type	Pattern	Value
RoI							
Top Level		SettlementDate	req		Date		
		SettlementRunIndicator	req	2	int	no	yes
		SupplierMPID	req	3	string	no	no
		SupplierUnitID	req	9F	string	yes	no
		SSAC	req	1	string	yes	no
AggregatedConsumption	reqM	IntervalPeriodTimestamp	req		DateTime		
		SettlementInterval	req	4	int	no	no
		AggregatedConsumption	req	9,2	decimal	no	no
		LossAdjustedAggregatedConsumption	req	9,2	decimal	no	no
AdditionalAggregationInformation	reqM	DLF_Code	req	5	string	no	no
		LoadProfileCode	req	3(str)	string	no	yes
		MPRNTally	opt	8	int	no	no
AdditionalAggregationConsumption	reqM	IntervalPeriodTimestamp	req		DateTime		
		SettlementInterval	req	4	int	no	no
		AggregatedConsumption	req	9,2	decimal	no	no
AdditionalAggregationData	reqM	TimeOfUse	opt	4	string	no	yes
		TotalUsageFactor	opt	31,14	decimal	no	no

Message 595 SU HH/QH Aggregation

Segment	Use	Field	Use	Chars	Type	Pattern	Value
RoI							
Top Level		SettlementDate	req		Date		
		SettlementRunIndicator	req	2	int	no	yes
		SupplierMPID	req	3	string	yes	no
		SupplierUnitID	req	9F	string	yes	no
		SSAC	req	1	string	yes	no
		PercntMPRNEst	req	3	int	no	no
		PercntConsAct	req	3	int	no	no
AggregatedConsumption	ReqM	IntervalPeriodTimestamp	req		DateTime		
		SettlementInterval	req	4	int	no	no
		AggregatedConsumption	req	9.2	decimal	no	no
		LossAdjustedAggregatedConsumption	req	9.2	decimal	no	no
AdditionalAggregationInformation	ReqM	DLF_Code	req	5	string	no	no
		MPRNTally	opt	8	int	no	no
AdditionalAggregationConsumption	ReqM	IntervalPeriodTimestamp	req		DateTime		
		SettlementInterval	req	4	int	no	no
		AggregatedConsumption	req	9.2	decimal	no	no
		LossAdjustedAggregatedConsumption	req	9.2	decimal	no	no

Message 598 Non Participant GU Aggregation

Segment	Use	Field	Use	Chars	Type	Pattern	Value	
Rol								
Top Level		SettlementDate	req		Date			
		SettlementRunIndicator	req	2	int	no	yes	
		GenerationUnitID	req	9	string	no	no	
MeteredGenerationInfo	reqM	IntervalPeriodTimestamp	req		DateTime			
		SettlementInterval	req	4	int	no	no	
		GenerationUnitMetered						
		Generation	req	9,2	decimal	no	no	
		LossAdjustedGenerationUnit						
		MeteredGeneration	req	9,3	decimal	no	no	

Message 594 (Participant Interval Export) has the same structure as message 598 except for the field below

LossAdjustedGenerationUnit						
MeteredGeneration	req	9,2	decimal	no	no	

Messages can be provided to an associated Supplier

Message 596 Supply Copy SMO SU Aggregation

Segment	Use	Field	Use	Chars	Type	Pattern	Value
RoI							
Top Level		SettlementRunIndicator	req	2D	int	no	yes
		StartPeriodTime	req		DateTime		
		EndPeriodTime	req		DateTime		
		TimeCreated	req		DateTime		
		SupplierUnitID	req	9F	string	yes	no
AggregatedQuantity	reqM	ReadingNumber	req	2	int	no	no
		StartTime	req		DateTime		
		EndTime	req		DateTime		
		MeasuredQuantity	req	8,3	decimal	no	no
		QueryFlag	req	1	int	no	yes
		ReadingDataStatus	req	20V	string	no	no

Message 597 Generator Copy SMO GU Aggregation

Segment	Use	Field	Use	Chars	Type	Pattern	Value
RoI							
Top Level		SettlementRunIndicator	req	2	int	no	yes
		StartPeriodTime	req		DateTime		
		EndPeriodTime	req		DateTime		
		TimeCreated	req		DateTime		
		GenerationUnitID	req	9V	string	no	no
AggregatedQuantity	reqM	ReadingNumber	req	2	int	no	no
		StartTime	req		DateTime		
		EndTime	req		DateTime		
		MeasuredQuantity	req	8,3	decimal	no	no
		QueryFlag	req	1	int	no	yes
		ReadingDataStatus	req	20V	string	no	no

Can be provided to an associated Supplier

Data Aggregation - Other

- ❖ **NIE to provide EAC/AAC effective date on aggregation audit trail**

DUoS Billing

- ❖ **The following processes remain unchanged in both jurisdictions:**
 - ❖ Tariff determination
 - ❖ Billing and invoicing cycles
- ❖ **NIE will not be introducing messages 507 or 507C**
 - ❖ Message 507C relates to designated disputes
 - ❖ Threshhold for designated disputes in NI is 5% of entire bill
 - ❖ Highly unlikely many disputes will reach this level
 - ❖ Disputes continue to be handled manually
 - ❖ Message 507 adds little value as a reconsiliation if message 507C is not used

MCR0165

- ❖ **MCR0165 has been approved in Rol to handle adjustments to previous estimates**
- ❖ **NIE will align with the general intent of MCR0165 as follows**
 - ❖ Will apply when:
 - A meter reading shows consumption exceeding 25% of EUF
 - Two or more consecutive quarterly bills have been estimated
 - ESB use a rule of three bi-monthly bills
 - No other actual reads exist since the last billed actual read
 - ❖ In the above circumstances NIE will
 - Cancel and rebill all DUoS estimates since the last billed actual read
 - Interpolate estimates on the basis of the current actual read
 - Use message 305 to communicate re-estimates

DUoS Billing – Cancel and ReBill

- ❖ **NIE cancel and rebill scenarios will be broadly consistent with ESB**
- ❖ **Examples of where cancel and rebilling occurs are:**
 - ❖ Valid actual read less than previous estimate
 - (including Supplier provided reads)
 - ❖ CoS readings are agreed to be replaced
 - ❖ Meter readings are found to be incorrect
 - ❖ Wrong Supplier is billed (e.g. CoS cancelled)
 - ❖ Late capture of fieldwork completions completed before last DUoS bill
 - ❖ MCR0165 scenario previous described

DUoS Billing

- ❖ **Previously communicated changes to be implemented by NIE are:**
 - ❖ Proposed as part of Enduring Solution
 - Continuous Billing
 - NIE to move to time-slicing approach when tariff changes occur
 - This is the current ESB approach
 - ❖ Change of usage to be handled as proposed for HWG4
 - ❖ Charges following a request to de-energise to be handled as agreed in HWG3a and 4
 - ❖ Estimation approach for billing NHH credit metering described earlier
 - ❖ Use of message 305 when DUoS consumption is re-estimated and is not settlement relevant
- ❖ **No further changes are proposed**

**Agreements on
Customer Data
Meter Point Characteristics**

Proposal Agreement – Customer and MP Data

❖ We will briefly review

- ❖ Proposals presented on 2nd November
- ❖ *Proposal changes made as a result of comments made and clarifications discussed on 11th November – highlighted in red*

❖ We will then

- ❖ Seek general agreement
- ❖ List exceptions to agreement
- ❖ Work on the items agreed as outstanding – requiring further work
- ❖ Refer other exceptions to next HSG (26th November) for decision
- ❖ Issue message guides (***date t.b.a.***)
- ❖ Issue document summarising procedural changes (early December)
 - NIE and ESB will issue separate documents
 - *There may be no changes and hence no document for ESB*

Customer and MP Data Summary

- ❖ **What key items has changed since HWG4**
 - ❖ MIC Start Date added to message 301 (NIE use only)
- ❖ **What remains the same**
 - ❖ Messaging
 - ❖ Items not in *red type*
- ❖ **What remains outstanding and is excluded from agreement**
 - ❖ Provision of medical equipment updates by NIE to Suppliers

Customer Details and Meter Point Characteristics

❖ NIE propose

- ❖ To introduce a separate process for Change of Legal Entity / Change of Tenancy similar to that employed in the RoI
- ❖ To introduce additional market messages for Suppliers as follows:
 - 016, 116 and 116N (CoLE/CoT)
 - 301N (Meter Point Characteristics Change notification)
 - Note 014R, 114, 301, 321 introduced by Enduring Solution
 - (014R was originally identified as N114R),
- ❖ To retain message N140 sent to a previous Supplier for previous tenancy tracking

Change of Customer Details

- ❖ **Change of Customer Details submitted by Supplier using message 013**
 - ❖ Message 014R issued to reject changes
 - ❖ Message 114 issued to confirm changes
 - ❖ There may be a mixture of items accepted and items rejected
- ❖ **Common address, name and contact data segment formats adopted as per previous HWG2 and HWG3 presentations**
- ❖ **Multiple messages required if more than one medical or special needs value**
- ❖ **Deletion flags will be introduced in NI for some data fields**
 - ❖ Medical and special needs values to be deleted to be specified
- ❖ **Previous tenancy data**
 - ❖ No longer supported on message 013 in Northern Ireland
 - ❖ Will be processed on message 016 (CoLE/CoT) in Northern Ireland only
- ❖ **MCR0169 agreed in RoI introduces new field on the following messages whereby a Supplier can indicate customer agreement to display medical equipment details via the MPRN web-site :**
 - ❖ 010, 013, 016 and 017
 - ❖ *Field is called **DisplayOnExtranet** and will be added in later schema versions*

Change of Customer Details Message 013

Republic of Ireland 013

Northern Ireland N013

Field	Use	Chars	Type	Pattern	Value	Field	Use	Chars	Type	Pattern	Value	Comment
MPRN	req	11	string	no	no	MPRN	req	11	string	no	no	Supplier must hold registration
MPBusinessReference	req	35	string	no	no	MPBusinessReference	req	35	string	no	no	
ChangeMeterAddressFlag	req		boolean			ChangeMeterAddressFlag	req		boolean			
DeletePOBoxAddressFlag	req		boolean			DeletePOBoxAddressFlag	req		boolean			PO box in notification address
SupplierMPID	req	3	string	no	no	SupplierMPID	req	3	string	no	no	
AccessInstructionsText	opt	40	string	yes	no	AccessInstructionsText	opt	40	string	yes	no	NIE review before updating
DeleteAccessInstructionsFlag	req		boolean			DeleteAccessInstructionsFlag	req		boolean			NIE review before deleting
ChangeOfUsageCode	opt	2	string	no	yes	ChangeOfUsageCode	opt	2	string	no	yes	Combined premise value applies in NI only
EAI_Code	opt	5V	string	no	yes	EAI_Code	opt	5V	string	no	yes	NI / Rol code sets differ
DeleteMedicalEquipmentNeedsFlag	req		boolean			DeleteMedicalEquipmentNeedsFlag	req		boolean			Value to be deleted provided below
DeleteCustomerServiceDetailsFlag	req		boolean			DeleteCustomerServiceDetailsFlag	req		boolean			Value to be deleted provided below
Missing						COT_LE_Flag						Remove from schema
Missing						SupplyAgreementFlag						Remove from schema
MeterReaderPassword	opt	8	string	no	no	MeterReaderPassword	opt	8	string	no	no	Used in NIE only, regulatory requirement
DeleteMeterReaderPassword	req		boolean			DeleteMeterReaderPassword	req		boolean			
MedicalEquipmentDetailsCode	opt	4	string	no	yes	MedicalEquipmentDetailsCode	opt	4	string	no	yes	NIE adopt ESB approach; multiple values possible in NI
CustomerServiceDetailsCode	opt	4V	string	no	yes	CustomerServiceDetailsCode	opt	4V	string	no	yes	NIE to adopt ESB approach and merge lists

Message additionally contains MP Address, Customer Name, Customer Contact, Notification Address and Technical Contact segments

Change of Customer Details Rejection 014R

Republic of Ireland 014R

Use	Field	Use	Chars	Type	Pattern	Value
	MPRN	req	11	string	no	no
	SupplierMPID	req	3	string	no	no
	MPBusinessReference	req	35	string	no	no
reqM	RejectReasonCode	req	2-3V	string	no	yes

Message does not currently exist in NI

Message additionally contains MP Address and Customer Name segments

Change of Customer Details Confirmation 114

Republic of Ireland 114

Use	Field	Use	Chars	Type	Pattern	Value
	MPRN	req	11	string	no	no
	SupplierMPID	req	3	string	no	no
	MPBusinessReference	opt	35	string	no	no
	DUOS_Group	opt	4	string	no	yes
	ChangeOfUsageFlag	req	none	boolean	no	no
	MeterPointAddressChangedFlag	req	none	boolean	no	no
	CustomerDetailsChangedFlag	req	none	boolean	no	no
	MessageStatusCode	req	1	string	no	yes
	LoadProfileCode	opt	3	string	no	yes
	EffectiveFromDate	opt		date		

Message does not currently exist in NI (message N195 is used)

Message will also be sent where networks detect MP address change

Message additionally contains MP Address and Customer Name segments

Other than MP Address, Customer Name, DUoS Group and Load Profile message 114 does not contain updated values.

Change of Tenancy / Legal Entity

- ❖ **Change of Tenancy / Legal Entity submitted by Supplier using message 016**
 - ❖ Message 116R issued to reject CoT / CoLE
 - ❖ Message 116 issued to confirm changes
 - ❖ Cannot receive both 116R and 116 for same transaction
 - ❖ Message 116N issued to New Supplier if a Change of Supplier is in progress
 - Responsibility with New Supplier to cancel; otherwise CoS continues
 - ❖ Message 300 issued to confirm readings (if provided or, in RoI only, estimated)
 - ❖ Message 303R issued to reject readings when invalid meter data
 - Does not apply to future dated readings or invalid readings
 - ❖ Messages 014R issued to reject change of usage
 - ❖ Message 114 issued to confirm change of usage (i.e. a change of DUoS tariff)
 - ❖ Message 701 (consumption) issued **by ESB in RoI only** for unmetered sites
 - ❖ Message 140 issued to previous Supplier based on previous tenancy data supplied in Northern Ireland only
- ❖ **Where 303R and/or 014R are issued, the CoT/CoLE itself will continue**
- ❖ **Note detail of messages 300, 303R and 701 will be covered in a future HWG on December 1st**

Change of Tenancy / Legal Entity - Data

- ❖ **Common address, name and contact data segment formats adopted as per previous HWG2 and HWG3 presentations**
- ❖ **A request to change Meter Point Address cannot be submitted using message 016**
- ❖ **A Supplier must follow up with additional 013 message(s)**
 - ❖ if more than one medical or special needs value
 - ❖ if it is required to provide or change access instructions

Change of Tenancy / Legal Entity Required Data and Readings

- ❖ **CoT / CoLE may be future dated or past dated**
 - ❖ CoT / CoLE *will take effect as at the provided and* valid required date
 - ❖ If there is no date provided, then the message receipt date will be used for both the CoT/CoLE and any estimates. Readings will be ignored
 - ❖ If date is prior to the last DUoS bill date, then the message receipt date will be used for the CoT/CoLE but any readings are ignored
 - and an estimate is used in Rol for non MD sites below 30kVA
 - ❖ *NIE propose to introduce a check against dates that are significantly into the future*
- ❖ **Readings may be provided on message 016**
 - ❖ Readings are ignored for interval, MD or unmetered sites
 - ❖ Readings are ignored on a future dated CoT/CoLE
 - ❖ Readings accepted will be advised using message 300
 - ❖ Readings rejected will be advised using message 303R
 - This does not reject the CoLE/CoT and does not apply to future dated readings
 - ❖ Where readings are invalid or no readings are provided:
 - ESB will estimate readings, provided DUoS billing has not occurred, and provide these on message 300. If necessary ESB wait until the “future” date before estimation
 - NIE do not propose to estimate readings

Change of Tenancy/Legal Entity Message 016

Republic of Ireland 016

Segment	Use	Field	Use	Chars	Type	Pattern	Value	Comment
Top Level		MPRN	req	11	string	no	no	Supplier must hold registration
		MPBusinessReference	req	35	string	no	no	
		ReadReasonCode	opt	2F	string	no	yes	Set to 27 if reading provided
		SupplierMPID	req	3	string	no	no	
		RequiredDate	opt		date			Can be omitted, future or past
		ChangeOfUsageCode	opt	2	string	no	yes	Combined premise value applies in NI only
		EAI_Code	opt	5V	string	no	yes	NI and Rol code sets are different
		SupplyAgreementFlag	req		boolean			
		MeterReaderPassword	opt	8	string	no	no	NIE only, regulatory requirement, ESB have different process
		MedicalEquipmentDetailsCode	opt	4	string	no	yes	NIE to adopt ESB approach; multiple values possible in NI
	CustomerServiceDetailsCode	opt	4V	string	no	yes	NIE to adopt ESB approach and merge lists	
MeterID	optM	MeterCategoryCode	opt	15V	string	no	no	Not used by NIE
		SerialNumber	opt	9V	string	no	no	Mandatory in NI, under ESB review
Register	optM	MeterRegisterSequence	opt	3V	string	no	no	
		TimeslotCode	opt	10V	string	no	yes	Mandatory in NI
		ReadingValue	req	15,3	string	no	no	
		ReadTypeCode	req	2V	string	no	yes	Set to SC
		RegisterTypeCode	opt	2F	string	no	yes	Not used by NIE

Message does not currently exist in NI (message N013 is used)

Message additionally contains Customer Name, CoT History, Customer Contact, Notification Address, Technical Contact and Party Contact segments

CoT / CoLE Rejection Message 116R

Republic of Ireland 116R

Use	Field	Use	Chars	Type	Pattern	Value
	MPRN	req	11	string	no	no
	MPBusinessReference	req	35	string	no	no
reqM	RejectReasonCode	req	2-3V	string	no	yes

Message does not currently exist in NI

CoT / CoLE Confirmation Message 116

Republic of Ireland 116

Field	Use	Chars	Type	Pattern	Value
MPRN	req	11	string	no	no
SupplierMPID	req	3	string	no	no
MPBusinessReference	req	35	string	no	no
EffectiveFromDate	req		date		
DUOS_Group	req	4	string	no	yes
EAI_Code	opt	5V	string	no	yes

Message does not currently exist in NI

Message additionally contains Party Contact segment

Other than DUoS Group and EAI code message 114 does not contain updated values

CoT / CoLE Notification Message 116N

Republic of Ireland 116N

Field	Use	Chars	Type	Pattern	Value
MPRN	req	11	string	no	no
SupplierMPID	req	3	string	no	no
EffectiveFromDate	req		date		
DUOS_Group	req	4	string	no	yes
EAI_Code	opt	5V	string	no	yes

Message does not currently exist in NI

Message additionally contains Party Contact segment

Previous Tenancy Message 140

- ❖ **Message will continue to be sent by NIE only to the previous Supplier when a Supplier advises a CoT and provides previous Supplier data**
- ❖ **Message contains:**
 - ❖ MPRN
 - ❖ Supplier ID (of the Supplier reporting the CoT)
 - ❖ Customer Name segment
 - ❖ Meter Point Address segment
 - ❖ Change of Tenancy History details
 - ❖ Customer Contact details
 - ❖ Notification Address details
- ❖ **Common address, name and contact data segment formats adopted as per previous HWG2 and HWG3 presentations**

Change of Usage

- ❖ Change of Usage may be submitted on messages 013 or 016
- ❖ NIE also propose to infer a Change of Usage from a requested Meter Configuration where this can be done uniquely
 - ❖ Refer to NIE data codes spreadsheet for allowable MCC to usage type combinations
 - ❖ Where usage type cannot be uniquely determined, NIE will look for message 013 or 016
- ❖ **In NI, the Change of Usage will take effect from *(in order of preference)*:**
 - ❖ The *required date for HH meters or when* valid NHH readings provided on CoU message (016)
 - ❖ The date of any fieldwork if the CoU is derived from or associated with fieldwork
 - ❖ The day after any previous billable reading *(since the last DUoS bill)*
 - ❖ The day after the last DUoS bill, *which may be estimated*, if none of the above apply
 - ❖ *A Change of Usage cannot take effect from a future date*
- ❖ ***In Rol the rules are more complicated and depend on the type of DUoS change implied***
 - ❖ *In some circumstances a CoU will be based on an estimate at the required date*
 - ❖ *This is typically interpolated from the next actual read and can generate two AUF's as described in MCR086*
 - ❖ *In some circumstances the Change of Usage can take effect from a future date*
- ❖ **The Change of Usage date may therefore vary from the CoT/CoLE date in NI and Rol**
 - ❖ *Refer to earlier slides for NI rules, documentation is available from ESB on the Rol rules*

Message Matrix – Fieldwork & Customer Data

Matrix showing message combinations for Change of Usage, Change of MCC, Change of Tenancy and Energisation requests.

Scenario	Change of Usage	Change of MCC	Change of Tenancy	Change of MP Status	Sent in NI			Sent in Rol or in NI where Supplier wishes to explicitly use 017 energise		
					Mess.1	Mess.2	Mess.3	Mess.1	Mess.2	Mess.3
1	YES	YES	YES	Energisation	030	016		017	030	013
2	YES	YES	YES	NO	030	016		030	016	
3	YES	YES	NO	Energisation	030	013		017	030	013
4	YES	YES	NO	NO	030	013		030	013	
5	YES	NO	YES	Energisation	017	013		017	013	
6	YES	NO	YES	NO	016			016		
7	YES	NO	NO	Energisation	017	013		017	013	
8	YES	NO	NO	NO	013			013		
9	NO	YES	YES	Energisation	030	016		017	030	
10	NO	YES	YES	NO	030	016		030	016	
11	NO	YES	NO	Energisation	030			017	030	
12	NO	YES	NO	NO	030			030		
13	NO	NO	YES	Energisation	017			017		
13d (NIE)	NO	NO	YES	De-energise	017			017		
14	NO	NO	YES	NO	016			016		
15	NO	NO	NO	Energisation	017			017		
15d	NO	NO	NO	De-energise	017			017		

Scenarios 2,3,4: If 013/016 arrives before 030 the CoU may sometimes be rejected (message 014R) and may need to be resubmitted. Details will be clarified during detailed design.

Meter Point Characteristics

- ❖ **NIE is introducing message 301N, aligned to ESB, to provide an advance notification of changes to Meter Point Characteristics**
 - ❖ Will be sent when a quote is issued to customer for changes
 - ❖ Optional fields will communicate the data that is to be changed
 - ❖ Completion of process may lead to issue of messages 331 and/or 332
- ❖ **If a change only requires a change in metering configuration the request should be made through the Supplier using message 030**
- ❖ **NIE is aligning with the ESB format for message 301 notification of changes to Meter Point Characteristics**
 - ❖ Chargeable service capacity will be added but not used in RoI
 - ❖ Will be used on message 301 in NI when annual CSC updates are made
 - ❖ Full data is provided as it stands on system following the change, together with an effective date for the changes
 - ❖ Message 301 was already agreed to be introduced within Enduring Solution

MP Characteristics Notification Message 301N

Republic of Ireland 301N

Field	Use	Chars	Type	Pattern	Value	Comments
MPRN	req	11	string	no	no	
DLF_Code	opt	5	string	no	no	
TransformerLossFactor	opt	6,4	decimal	no	no	Not used in NI
ConnectionSystemCode	opt	10	string	no	yes	
UnmeteredDetails	agreed to remove from schema					
EstimatedUsageFactor	agreed to remove from schema					
LoadProfileCode	opt	3	string	no	yes	
MaximumImportCapacity	opt	9	int	no	no	
LoadFactorCode	opt	10	string	no	yes	Not used in NI
MaximumExportCapacity	opt	9	int	no	no	
MeterConfigurationCode	opt	10	string	no	yes	
DUOS_Group	opt	4	string	no	yes	

Message does not currently exist in NI

Message additionally contains Meter Point Address segment

MP Characteristics Change Message 301

Republic of Ireland 301

Field	Use	Chars	Type	Pattern	Value	Comment
MPRN	req	11	string	no	no	
DLF_Code	opt	5V	string	no	no	
TransformerLossFactor	opt	6,4	decimal	no	no	Not used in NI
ConnectionSystemCode	opt	10V	string	no	yes	
UnmeteredDetails	agreed to remove from schema					
EstimatedUsageFactor	agreed to remove from schema					
LoadProfileCode	opt	3	string	no	yes	
MaximumImportCapacity	opt	9	int	no	no	
MaximumImportCapacityStartDate	opt		Date			Not used in Rol
CurrentChargeableServiceCapacity	opt	9	int	no	no	Not used in Rol
LoadFactorCode	opt	10V	string	no	yes	Not used in NI
MaximumExportCapacity	opt	9	int	no	no	
MeterConfigurationCode	opt	10V	string	no	yes	
EffectiveFromDate	req		date			
DUOS_Group	opt	4	string	no	yes	

Message does not currently exist in NI (message N195 is used)

Message additionally contains Meter Point Address segment

MIC Start Date is added to the schema

Read Cycle Change Message 321

- ❖ **NIE is aligning with the ESB format for message 321 notification of permanent changes to Read Cycle**
 - ❖ Message was agreed to be introduced within Enduring Solution

Republic of Ireland 321

Field	Use	Chars	Type	Pattern	Value	Comment
MPRN	req	11	string	no	no	
ReadFrequencyCode	req	3V	string	no	yes	Code list merged Cycle code matches
ReadCycle	req	3	string	no	no	to read calendar

Message does not currently exist in NI (Message N195 currently used)

Agreements and Exceptions

- ❖ **Supplier exceptions to proposals for changes to NI processes**

Technical Workgroup

- ❖ **NIE Market Messaging Website will include display of Message Header Transaction Reference Number**
- ❖ **Discussions ongoing regarding:**
 - ❖ Alternative Supplier ID
 - ❖ Technical / receipt acknowledgments
 - ❖ Message reconciliation
 - ❖ Character sets

Any Other Business

- ❖ **Process for harmonisation of key data items referred to HSG; e.g**
 - ❖ Supplier and Participant Generator IDs
 - ❖ MPRN ranges

Message 131 Design Update

Segment	Use	Field	Use	Chars	Pattern	Value
Top Level		MPRN	req	11	no	no
		MPBusinessReference	opt	35	no	no
		WorkTypeCode	req	4F	yes	yes
		131RequestStatusCode	req	3V	no	yes
		AppointmentID	opt	To Be Defined		
		DateOfVisit	opt	Date		
		MeterPointStatus	opt	2V	no	yes
		OutcomeReasonCode	opt	4F	no	yes
		OrderStatusCode	req	4F	no	yes
		ObservationText	opt	512	no	no

Updates contain

- Field renames

- Format changes

- No changes to content

Work type list to be finalised between ESB and NIE as part of codes review

Comments on Today's Proposals

❖ To be forwarded to

❖ RMDS@esb.ie

❖ Ann.ferguson@nie.co.uk

❖ Paul.p.merkens@uk.ibm.com

❖ By close of play Monday December 7th

Next Meetings

- ❖ **Monday December 14th, 11am to 3pm**
 - ❖ At NIAUR offices, Belfast
 - ❖ Proposal agreement on
 - Data Processing & Aggregation
 - DUoS Billing
 - Market Message Infrastructure