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1 Introduction

1.1 Purpose of the Message Implementation Guide

This document is a Message Implementation Guide to assist Suppliers in:

- The construction of market messages to be sent to NIE Networks; and
- The interpretation of messages received from NIE Networks.

The Message Implementation Guides are organised into separate Message Groups documents based around key business processes. These are:

- Registration, including Change of Supplier
- Customer Data and Agreements
- Data Processing
- Data Aggregation
- DUoS and Transaction Payments
- Meter Works
- Unmetered
- Market Gateway Activity

This document is the **Data Processing** Market Message Implementation Guide.

Each Message Group section contains:

- An introduction outlining the scope and business context for the message group
- A Message Usage Summary with a description of when each message is used
- A list of Related Business Documents that govern the process
- A message directory with a section for each separate message which includes:
 - A description of each message and when it should be used
 - An overview diagram of the structure of the message.
 - For messages sent by Suppliers:
 - o A table containing composition instructions on how to populate each segment and field
 - o A table describing how the message will be validated

- o A description of the responses that can be expected
- For messages sent by NIE Networks:
 - o A table containing a description of how each segment and field will be populated.

The same type of data is often provided in several messages and, irrespective of the message type, this data is subject to common rules for population. An example is the Meter Point Address.

A separate document exists to describe the population rules for these types of data, providing:

- An overview of the structure of the segment
- Instructions relating to how to populate each segment and field.

1.2 Validation

The document provides notes on how NIE Networks will validate the messages received. The purpose of these notes is to aid the Supplier in the population of each message and is intended to avoid instances where messages are rejected due to the incorrect population of a message field. The validation described is therefore limited to field specific validations.

Syntax validation is excluded from the validation notes. This is performed by using standard XML Schema validation against the XML schema provided that defines the data structures of all market messages in scope. Syntax validation includes:

- Checks that the structure of the message is correct
- Checks that all mandatory fields are provided. Mandatory fields are, however, indicated in the instructions for populations.
- Checks that any data code is selected from the list of data codes issued by NIE Networks.

In cases where the segment on a message fails on any of these reasons, a negative acknowledgement is sent back as a market message to the message sender containing the following information:

- The Transaction Reference Number supplied on the inbound message
- A copy of the message contents as received by NIE Networks
- A description of the error.

General market process validations that are not specific to individual market message fields are excluded

1.3 Message Version

This Message Guide refers to and is consistent with the Market Messages and Data Codes.

1.4 Notes

In this document, the references to segment and field levels should be interpreted as follows:

- The level number indicated against the segment refers to the level of the data items and segments <u>within</u> that segment. Therefore, for example, in message 208 where 'MPRN Level Information –Level 2' is stated it is the data items and segments that comprise 'MPRN Level Information' that are level two items (e.g. MPRN field, Market Participant Business Reference field, Meter ID segment). Accordingly, within this document, MPRN Level Information segment is show as a Level 1 segment.
- Message Header is a Level 1 segment is a child of Header Level Information.

1.5 Implementation of Market Change Requests

The changes that have been incorporated into this document as a result of approved Market Change Requests are as follows.

- MCR 1012 Removal of use of message 303R for implausible reads
- MCR 1023 Estimated Readings for Change of Legal Entity
- CRID 152 Read Reason 27 and Read Type ED, EF
- CRID 153 Removal of Data Aggregation Estimated Readings at D+4
- MCR 1090 Updated Codes for 300 series market messages
- DR1110/CRID163 Updates to ES market message Implementation Guides and Retail Market Procedures
- DR1100/CRID159 CoS 210 Market Messages
- DR1116/CRID166 Updates for Enduring Solution NI Market Documentation

1.6 Outstanding Issues

None

2 DATA PROCESSING MESSAGE GROUP

2.1 Scope and Business Context

The purpose of the Data Processing messages is to enable a Supplier to provide meter readings to or request meter readings from NIE Networks and to enable NIE Networks to provide validated readings to the Supplier.

Data Processing messages are used in the following business contexts:

- The processing of Interval readings where message 341 and 342 is received.
- The processing of scheduled Non-Interval readings where messages 300 and 305 received.
- The notification of the read cycle where message 321 is received.
- The processing of special reads where message 300S is received in response to a valid Meters Works message 252 requesting a special read.
- The processing of customer reads where message 210 may be sent by a Supplier and messages 303R or 300 may be received. In addition meter readings can also be sent to NIE Networks using messages 010 (Change of Supplier) and 016 (Change of Legal Entity). These are described in the Registration and Customer Data sections respectively. Change of Supplier reading messages 310 and 320 and their associated withdrawal messages are also described in the Registration section.

Meter readings may also be withdrawn for a variety of reasons. Message 300W is used to communicate withdrawn readings to Suppliers.

In addition meter readings are also sent by NIE Networks as a result of Meter Works. These messages, 306, 307 and 332, and their associated withdrawal messages are described in the Meter Works sections.

2.2 <u>Message Usage Summary</u>

The following table provides a trigger list for each message detailing when it is used.

Message	Title	Sender	Recipient	Trigger	Predecessor
208	Replacement Reading	Supplier	NIE Networks	Supplier decides to dispute a Change of Supplier reading by providing a replacement	310 or 320
210	Supplier Provided Reading	Supplier	NIE Networks	Supplier has elected to provide a customer reading for a Change of Supplier or other purpose	
300	Validated Non-Interval Readings	NIE Networks	Supplier	A scheduled reading is collected and processed. A customer reading is obtained and processed.	Scheduled Read, 016 or 210
300S	Validated Non-Interval Readings (Special)	NIE Networks	Supplier	A special reading is obtained and processed.	252
300W	Withdrawn Non-Interval Reading	NIE Networks	Supplier	A scheduled, customer or special reading or estimate is withdrawn by NIE Networks	300, 300S, 305
303R	Customer Read Rejection	NIE Networks	Supplier	NIE Networks rejects a Customer Read	010, 016 or 210
305	Non Settlement Estimates	NIE Networks	Supplier	A 'no read' condition is returned by the Data Collector for a scheduled reading event	None
308	Non-Interval Load Factor Reading Exception	NIE Networks	Supplier	A load factor has been calculated from readings to be consistently different to that currently recorded	Any Non- Interval reading
321	Read Cycle Notification	Data Collector	Supplier	Data Collector makes a change to the read schedule for a Meter Point	None
341	Interval Meter Daily Readings (Import)	NIE Networks	Supplier	NIE Networks collect and validate import Interval meter readings	None
342	Interval Meter Daily Readings (Export)	NIE Networks	Supplier and Generator	NIE Networks collect and validate export Interval meter readings	None

2.3 <u>Message Directory – Supplier to NIE Networks</u>

2.3.1 Message 208: Replacement Reading

Purpose and Description of Message

Message 208 is sent by a New or Old Supplier to NIE Networks in order to dispute a Change of Supplier reading.

It contains a nominated replacement reading that, if agreed by both Suppliers, will be used to replace the Change of Supplier reading. The readings should be dated at, and will be applied as at, a Read Date equal to the original Change of Supplier date.

Message 208 is used in the following Market Processes:

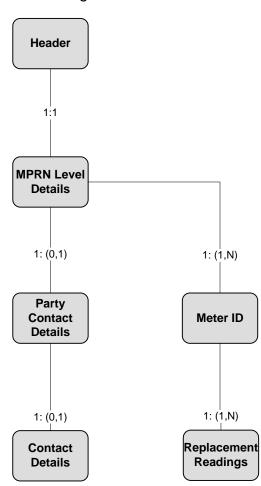
Process Number and Title	Use of Message
MP NI 14 Readings Processing – Non Interval	To dispute a Change of Supplier reading.

Message 208 should only be sent when:

- Message 310 or 320 has been received
- The replacement reading has been agreed with the other Supplier involved.

Data Hierarchy Diagram

208 Message



Composition Instructions

Suppliers should follow the instructions below in populating the Replacement Reading message.

Segment and Field Level Identifier – 208 Message						Optionality	Description and Purpose
1 Message Header					1	Mandatory	See Common Data Segments for detailed notes on structure and population.
1 MPRN Level Information			1	Mandatory			
2	FLD	MPRN			1	Mandatory	The unique identifying reference number for the Meter Point for which the Change of Supplier readings are sent.
2	FLD	Market Participant Business Reference			1	Mandatory	A reference to the Market Participant Business Reference provided in the Message Header sent by the Supplier to NIE Networks. It enables the Supplier to uniquely identify the original message to which this is the response.
2	FLD	Read Date			1	Mandatory	The Read Date is the date to which the reading will be applied. It should be the date of the reading being replaced as communicated on message 310 or 320.
2	2 FLD Read Reason		1	Mandatory	A code that indicates the reason that the reading is provided. The Read Reason should be set to: • 26 - Change of Supplier		
2	2 FLD Supplier ID			1	Mandatory	The Supplier ID should be set to the ID of the Supplier providing the replacement reading.	
2	2 SEG Party Contact Details		1	Optional	The Party Contact Details if and as provided by the Supplier. See Common Data Segments for detailed notes on structure and population		
2	SEG	Meter I	D		1N	Mandatory	
	3	FLD	Meter (Category	1	Optional	Not Used.
	3	FLD	Serial N	Number	1	Mandatory	The physical or badge number found on the meter.
	3	SEG	-	ement Reading	1N	Mandatory	Where customer readings are to be provided then a reading should be provided for each register together with sufficient information to identify the appropriate register. In normal circumstances only one of Meter Register Sequence, Timeslot or Register Type is required.
	4 FLD Meter Register Sequence			1	Optional	Meter Register Sequence is an identifier to distinguish between different	

Segment and Field Lev	Segment and Field Level Identifier – 208 Message				Description and Purpose
					meter registers on a physical meter or set of meters.
4	FLD	Timeslot	1	Optional	A code that indicates the period for which data is recorded. This must be provided in Northern Ireland.
					Refer to the Data Codes published by NIE Networks for a complete list of codes.
4	FLD	Reading Value	1	Mandatory	This should be the replacement reading the Supplier requests to be used for meter register identified by the Serial Number and Meter Register Sequence, Timeslot and Register Type data provided and which will be treated as effective on the Read Date.
4	FLD	Read Type	1	Mandatory	This should be set to: • RC - Replacement Reading
4	FLD	Register Type	1	Optional	Register Type is a code to indicate the purpose of the register.
					Refer to the Data Codes published by NIE Networks for a complete list of codes.

Validation

NIE Networks will undertake the following validation.

Segme	nt and F	ield Level Identifier – 208 Message	Validation			
1 Mes	1 Message Header		Not validated by NIE Networks.			
1 MP	RN Level	l Information				
2	FLD	MPRN	The MPRN must either be currently registered to the Supplier or have been registered to the Supplier			
			as the immediate previous Supplier.			
2	FLD	Market Participant Business Reference	Not validated by NIE Networks.			
2	FLD	Read Date	NIE Networks will check that the Read Date relates to the date of a Change of Supplier reading			
2	FLD	Read Reason	The Read Reason should be set to:			
			• 26 - Change of Supplier			
	Refer to the Data Codes published by NIE Networks for a complete list of codes.					
2	FLD	Supplier ID	The Supplier ID should be the ID of the Supplier providing the replacement reading.			
2	SEG	Party Contact Details	Not validated by NIE Networks.			

Segment and F	Segment and Field Level Identifier – 208 Message		fier – 208 Message	Validation		
2 SEG	2 SEG Meter ID					
3	FLD	Meter (Category	Not validated by NIE Networks.		
3	FLD	Serial N	Number	NIE Networks will match the Serial Number to the Serial Number(s) recorded for the Meter Point by		
				NIE Networks and if a unique match cannot be found the readings will be rejected.		
3	SEG	Replace	ement Reading	NIE Networks will expect a reading for every register installed at the Meter Point and will reject the		
				readings if this is not the case.		
	4	FLD	Meter Register Sequence	If provided, NIE Networks will match the Meter Register Sequence to the Meter Register Sequence (s)		
				recorded for the Meter Point by NIE Networks. If a unique match cannot be found the readings will be		
				rejected.		
	4	FLD Timeslot		NIE Networks will match the Timeslot to the Timeslot (s) recorded for the Meter Point and Meter		
				Serial Number matched above. If a unique match cannot be found the readings will be rejected.		
				The message will be invalid if Timeslot in not provided.		
	4 FLD Reading Value		Reading Value	Provided the readings are not rejected, NIE Networks will validate the readings according to the rules		
				specified in MP NI 14		
4 FLD Read Type		Read Type	Not validated by NIE Networks.			
4		4 FLD Register Type		If provided and NIE Networks cannot otherwise match readings to a register, NIE Networks will match		
				the Register Type to the Register Type (s) recorded for the Meter Point and Meter Serial Number		
				matched above. If a unique match cannot be found the readings will be rejected.		

2.3.2 Message 210: Supplier Provided Reading

Purpose and Description of Message

Message 210 can be sent by a Supplier to NIE Networks for a variety of reasons:

- By a New Supplier to provide a Change of Supplier Reading
- By an existing Supplier to fulfil a scheduled meter read order
- By an existing Supplier to correct a DUoS billing over-estimate.

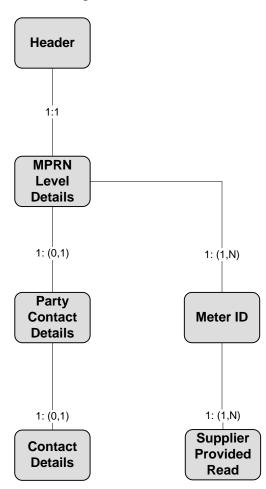
Message 210 is used in the following Market Processes:

Process Number and Title	Use of Message
MP NI 1 Change of Supplier – Non Interval Credit	To provide a Change of Supplier reading.
MP NI 14 Readings Processing – Non Interval	To provide a customer reading where a scheduled meter read order is open.
	To correct a DUoS billing over-estimate
MP NI 37 Change of Supplier - Keypad	To provide a Change of Supplier reading.

Message 210 should not be used for an Unmetered, Interval or SToD Meter Point.

Data Hierarchy Diagram

210 Message



Composition Instructions

Supplier should follow the instructions below in populating the Supplier Provided Reading message.

Segment and Field Level Identifier – 210 Message					Rpt	Optionality	Description and Purpose
1 Message Header			1	Mandatory	See Common Data Segments for detailed notes on structure and population.		
1 MPRN Level Information			1	Mandatory			
2	FLD	MPRN			1	Mandatory	The unique identifying reference number for the Meter Point for which the Change of Supplier readings are sent.
2	FLD	Market Participant Business Reference			1	Mandatory	A reference to the Market Participant Business Reference provided in the Message Header sent by the Supplier to NIE Networks. It enables the Supplier to uniquely identify the original message to which this is the response.
2	FLD	Read Date			1	Mandatory	The Read Date is the date to which the reading will be applied. The date on which the reading was obtained from the meter should be provided.
2	2 FLD Read Reason			1	Mandatory	A code that indicates the reason that the reading is provided. The Read Reason should be set to one of the following: • 26 - Change of Supplier • 27 - Change of Legal Entity • 95 - If the reading is provided for any other purpose, including to correct a DUoS estimate	
2	FLD	Supplie			1	Mandatory	The code identifying the Supplier providing the reading.
2	2 SEG Party Contact Details		1	Optional	The Party Contact Details if and as provided by the Supplier. See Common Data Segments for detailed notes on structure and population		
2	SEG Meter ID		1N	Mandatory			
	3	FLD Meter Category		1	Optional	Not Used.	
	3			1	Mandatory	The physical or badge number found on the meter.	
	3 SEG Supplier Provided Read		1N	Mandatory			
	4 FLD Meter Register Sequence		1	Optional	Meter Register Sequence is an identifier to distinguish between different meter registers on a physical meter or set of meters.		
	4 FLD Timeslot			I	Optional	A code that indicates the period for which data is recorded. This must be	

Segment and Field Lev	el Identi	fier – 210 Message	Rpt	Optionality	Description and Purpose
					provided in Northern Ireland.
					Refer to the Data Codes published by NIE Networks for a complete list of codes.
4	FLD	Reading Value	1	Mandatory	This should be the reading recorded on the Read Date on the register identified by the Serial Number, Meter Register Sequence and Timeslot data provided.
4	FLD	Read Type	1	Mandatory	This should be set to • SC - Supplier Provided Customer Reading
4	FLD	Register Type	1	Optional	Register Type is a code to indicate the purpose of the register.
					Refer to the Data Codes published by NIE Networks for a complete list of codes.

Validation

NIE Networks will also undertake the following validation.

Segment and Field Level Identifier			Validation					
1 Mess	age Hea	nder	Not validated by NIE Networks.					
1 MPR	1 MPRN Level Information							
2	FLD	MPRN	The MPRN must either be currently registered to the Supplier or, if the Read Reason denotes Change of Supplier, be subject to a registration request from the Supplier that has not yet been confirmed as complete. The MPRN must not identify an Unmetered Meter Point or an Interval Meter Point or one that is					
2	FLD	Market Participant Business Reference	subject to a STOD UoS Tariff. Not validated by NIE Networks.					
	FLD	Read Date	If the Read Reason denotes a Change of Supplier, then the Read Date must be: • For residential customers, not more than twelve days prior to or more than fifteen days later than the date of registration receipt by NIE Networks • For commercial customers, not more than two days prior to or more than fifteen days later than registration receipt by NIE Networks					

		D 10			The Read Date must not be prior to the date of the last DUoS Bill or the latest billed reading and cannot be a future date in any circumstances.		
2	FLD	Read R	eason		Read Reason is used to determine how the other validations are performed. If it is not one of the allowed values the readings will be rejected.		
					If value 26 is used by a Supplier for a keypad metered customer, the readings will be rejected if CoS has completed more than two days ago.		
2	FLD	Supplie	Supplier ID		Supplier ID		If the Read Reason denotes Change of Supplier, then the Supplier must have a registration request in progress that has not been completed. Otherwise, the Supplier ID should be the Supplier that is registered at the Meter Point.
2	SEG	Party C	ontact D	Details	Not validated by NIE Networks.		
2	SEG	_	Party Contact Details Meter ID		1vot varidated by 1viii 1vetworks.		
	3	FLD		Category	Not validated by NIE Networks.		
	3	FLD Serial Number			NIE Networks will match the Serial Number to the Serial Number(s) recorded for the Meter Point by		
			Serial Tumber		NIE Networks and if a unique match cannot be found the readings will be rejected.		
	3	SEG	Supplie	er Provided Read	NIE Networks will expect a reading for every register installed at the Meter Point and will reject the readings if this is not the case.		
		4	FLD	Meter Register Sequence	If provided, NIE Networks will match the Meter Register Sequence to the Meter Register Sequence (s) recorded for the Meter Point by NIE Networks. If a unique match cannot be found the readings will be rejected.		
		4	FLD	Timeslot	NIE Networks will match the Timeslot to the Timeslot (s) recorded for the Meter Point and Meter Serial Number matched above. If a unique match cannot be found the readings will be rejected.		
					The message will be invalid if Timeslot in not provided.		
	4 FLD Reading Value			Provided the readings are not rejected, NIE Networks will validate the readings according to the rules specified in MP NI 14.			
·-		4	FLD	Read Type	Not validated by NIE Networks.		
		4	FLD	Register Type	If provided and NIE Networks cannot otherwise match readings to a register, NIE Networks will match the Register Type to the Register Type (s) recorded for the Meter Point and Meter Serial Number matched above. If a unique match cannot be found the readings will be rejected.		

If the above meter details or read date validation is not successful then NIE Networks will reject the reading using message 303R. If the validation is successful then NIE Networks will process the reading and communicate the results using message 300 or, for a Change of Supplier, 310 and 320.

2.4 <u>Message Directory – NIE Networks/Data Collector to Supplier</u>

2.4.1 Message 300: Validated Non-Interval Readings (Scheduled)

Purpose and Description of Message

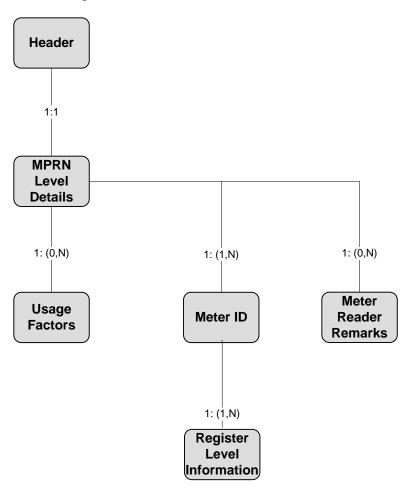
Message 300 is sent by NIE Networks to a Supplier to advise of processed scheduled and customer meter readings.

Message 300 is used in the following Market Process:

Process Number and Title	Use of Message
MP NI 14 Readings Processing – Non Interval	To advise processed scheduled and customer meter readings to the Supplier
MP NI 25 Change of Legal Entity	To confirm a Change of Legal Entity reading or estimate.

Data Hierarchy Diagram

300 Message



Message Structure and Interpretation

Segme	nt and F	ield Level	l Identifier – 300 Message	Rpt	Optionality	Description and Purpose
1 Mes	sage Hea	ader		1	Mandatory	See Common Data Segments for detailed notes on structure and population.
1 MP	RN Leve	l Informat	ion	1	Mandatory	
2	FLD	MPRN		1	Mandatory	The unique identifying reference number for the Meter Point for which the
					_	Change of Supplier readings are sent.
2	FLD	Market F	Participant Business Reference	1	Optional	A reference to the Market Participant Business Reference provided in the Message Header sent by the Supplier to NIE Networks. It enables the Supplier to uniquely identify the original message to which this is the response. It will only be populated in response to message 016 or 210.
2	FLD	Network	s Reference Number	1	Mandatory	A reference allocated by NIE Networks to the readings
2	FLD	Load Profile		1	Mandatory	A code denoting the standard load profile that determines, when coupled with Timeslot, the derived profile that is applied to consumption usage for settlement purposes.
						Refer to the Data Codes published by NIE Networks for a complete list of codes.
2	FLD	DUoS Group		1	Mandatory	This field will contain the code for the DUoS Tariff applied by NIE Networks to the Meter Point. Refer to the Data Codes published by NIE Networks for a complete list of
						codes.
2	FLD	Meter Point Status		1	Mandatory	The connection status of the Meter Point. This will be one of the following: • D - Meter Point was De-Energised • E - Meter Point was Energised
2	FLD	Read Date		1	Mandatory	The date on which the readings provided in the message were read from the meter or the date to which any estimate applies. The time of the readings is assumed to be the end of the day.
2	SEG	Usage Factors		0N	Optional	For each Timeslot there will be two usages; the first being the actual usage and the second the estimate usage, each with their own separate Effective From Date.
	3	FLD	Timeslot	1	Mandatory	A code that indicates the period for which usage is settled. Refer to the Data Codes published by NIE Networks for a complete list of

Segment and F	ield Lev	el Ident	ifier – 300 Message	Rpt	Optionality	Description and Purpose
						codes.
3	FLD	Effecti	ve From Date	1	Mandatory	If the date of the read is D this field will contain D+1 for the Estimated Usage Factor. For the actual usage factor it should contain either the previous read date or the day following the previous read date depending on the type of the previous read.
3	FLD	Actual Usage Factor		1	Optional	This will contain the total AUF for consumption calculated for the period between the previous read date and the read date for registers with the indicated timeslot.
3	FLD	Estima	ted Usage Factor	1	Optional	This will contain the total EUF for consumption registers with the indicated timeslot.
2 SEG	Meter I	D		1N	Mandatory	
3	FLD	Meter	Category	1	Optional	Not Used.
3	FLD	Serial	Number	1	Mandatory	The physical or badge number found on the meter.
3	SEG	Registe	er Level Information	1N	Mandatory	This is the segment that stores information relating to the registers displayed on a meter.
	4	FLD	Meter Register Sequence	1	Mandatory	Meter Register Sequence is an identifier to distinguish between different meter registers on a physical meter or set of meters.
	4	FLD	Timeslot	1	Mandatory	A code that indicates the period for which data is recorded. Refer to the Data Codes published by NIE Networks for a complete list of codes.
	4	FLD	Unit of Measurement	1	Mandatory	Unit of measurement is a code that indicates the value that is measured e.g. KWh. Refer to the Data Codes published by NIE Networks for a complete list of codes.
	4	FLD	Meter Multiplier	1	Mandatory	Meter Multiplier is a factor to be applied to an advance or reading at a register in order to derive a true value.
	4	FLD	Reading Value	1	Mandatory	Reading Value is the reading for this register.
	4	FLD	Read Reason	1	Mandatory	A code that indicates the reason that a reading was collected or generated. This should be set to: • 01 - Scheduled Read • 10 - Ad hoc, non-chargeable check read • 27 - Change of Legal Entity
	4	FLD	Read Type	1	Mandatory	A code that indicates whether the reading is:

Segment and Field Level Identifier – 300 Message Rpt Optionality						Description and Purpose	
							• A - Actual
							• E – Estimated – No Access
							• ED – Estimated – Reading dated before last DUoS bill
							• EF – Estimate – Implausible / No Read Available
							CU - Customer Reading
							SC - Supplier Provided Customer Reading
		4	FLD	Previous Read Date	1	Mandatory	The date from which consumption is calculated. This will be the previous
							actual read date or, where there has been a subsequent billing estimate, the
							date of the billing estimate. This is provided for kWh registers only.
	4		FLD	Consumption	1	Optional	The consumption in kWh calculated from the Previous Read Date. This is
							provided for kWh registers only.
		4	FLD	Read Status	1	Mandatory	This will be set to one of the following:
							• RV - Reading Valid
							RREL - Reading - Manually released
							REST - Reading estimated
							RENS – Reading estimated, not used for settlement
		4	FLD	Register Type	1	Mandatory	Register Type is a code to indicate the purpose of the register.
							Refer to the Data Codes published by NIE Networks for a complete list of
1							codes.
2	SEG	Meter F	Reader R	emarks	0N	Optional	This segment stores information captured by the meter reader describing any
			I = = -				issues encountered while attempting to obtain a meter reading.
	3	FLD	Meter	Reader Remark Code	1	Mandatory	Meter Reader Remark Code indicates the nature of the issue encountered
							while attempting to obtain a meter reading.
							Refer to the Data Codes published by NIE Networks for a complete list of
							codes.
	3 FLD		Meter	Reader Remark Text	1	Optional	Meter Reader Remark Text provides extra information relating to the issue.
							Refer to the Data Codes published by NIE Networks for a complete list of
							codes.

2.4.2 Message 300S: Valid Non-Interval Readings (Special)

Purpose and Description of Message

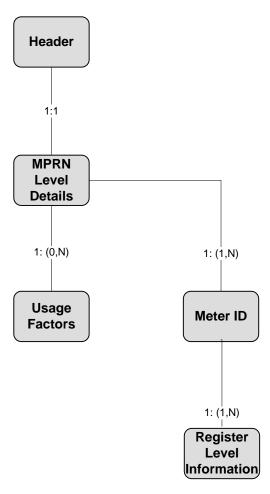
Message 300S is sent by NIE Networks to a Supplier to advise of processed special meter readings.

Message 300S is used in the following Market Process:

Process Number and Title	Use of Message
MP NI 14 Readings Processing – Non Interval	To advise a special reading obtained as a result of Change of Supplier reading dispute.
MP NI 18 Special Read Requests	To advise a special reading.

Data Hierarchy Diagram

300S Message



Message Structure and Interpretation

Segme	nt and F	ield Level Identifier – 3	00S Message Rpt	Optionality	Description and Purpose
1 Mes	ssage Hea	nder	1	Mandatory	See Common Data Segments for detailed notes on structure and population.
1 MP	RN Leve	l Information	1	Mandatory	
2	FLD	MPRN	1	Mandatory	The unique identifying reference number for the Meter Point for which the
					Change of Supplier readings are sent.
2	FLD	Market Participant Busi	iness Reference 1	Optional	A reference to the Market Participant Business Reference provided in the Message Header sent by the Supplier to NIE Networks. It enables the
					Supplier to uniquely identify the original message to which this is the response.
2	FLD	Networks Reference Nu	ımber 1	Mandatory	A reference allocated by NIE Networks to the readings
2	FLD	Load Profile		Mandatory	A code denoting the standard load profile that determines, when coupled with Timeslot, the derived profile that is applied to consumption usage for settlement purposes.
					Refer to the Data Codes published by NIE Networks for a complete list of codes.
2	FLD	DUoS Group		Mandatory	This field will contain the code for the DUoS Tariff applied by NIE Networks to the Meter Point.
					Refer to the Data Codes published by NIE Networks for a complete list of codes.
2	FLD	Meter Point Status	1	Mandatory	The connection status of the Meter Point. This will be one of the following: • D - Meter Point was De-Energised
					 E - Meter Point was De-Energised E - Meter Point was Energised
2	FLD	Read Date	1	Mandatory	The date on which the readings provided in the message were read from the
					meter or the date to which any estimate applies. The time of the readings is assumed to be the end of the day.
2	SEG	Usage Factors		Optional	For each Timeslot there will be two usages; the first being the actual usage
					and the second the estimate usage, each with their own separate Effective From Date.
	3	FLD Timeslot	1	Mandatory	A code that indicates the period for which usage is settled.
				TVI and and a	Refer to the Data Codes published by NIE Networks for a complete list of
					Refer to the Data Codes published by NTE Networks for a complete list of

Segment and F	ield Lev	el Identi	fier – 300S Message	Rpt	Optionality	Description and Purpose
						codes.
3	FLD	Effecti	ve From Date	1	Mandatory	If the date of the read is D this field will contain D+1 for the Estimated
						Usage Factor. For the actual usage factor it should contain either the
						previous read date or the day following the previous read date depending on
						the type of the previous read.
3	FLD	Actual	Usage Factor	1	Optional	This will contain the total AUF for consumption calculated for the period
						between the previous read date and the read date for registers with the
2	ET D	T .:	. 117	-	0 1 1	indicated timeslot.
3	FLD	Estima	ted Usage Factor	1	Optional	This will contain the total EUF for consumption registers with the indicated
2 000	37. 7	D.		1 27	3.6 1 .	timeslot.
2 SEG	Meter I		Carta a sa	1N	Mandatory	No. IV. 1
3	FLD		Category	1	Optional	Not Used.
3	FLD SEG		Number	1 N	Mandatory	The physical or badge number found on the meter.
3	SEG Register Le		er Level Information	1N	Mandatory	This is the segment that stores information relating to the registers displayed on a meter.
	4	FLD	Meter Register Sequence	1	Mandatory	Meter Register Sequence is an identifier to distinguish between different
		ILD	Weter Register Sequence	1	Wiandatory	meter registers on a physical meter or set of meters.
	4	FLD	Timeslot	1	Mandatory	A code that indicates the period for which data is recorded.
	•	122		1		Troops and more the period for which data is recorded.
						Refer to the Data Codes published by NIE Networks for a complete list of
						codes.
	4	FLD	Unit of Measurement	1	Mandatory	Unit of measurement is a code that indicates the value that is measured e.g.
						KWh.
						Refer to the Data Codes published by NIE Networks for a complete list of
						codes.
	4	FLD	Meter Multiplier	1	Mandatory	Meter Multiplier is a factor to be applied to an advance or reading at a
	4	ELD	D 1: W 1	-	3.6 1.	register in order to derive a true value.
	4	FLD	Reading Value	1	Mandatory	Reading Value is the reading for this register.
	4	FLD	Read Reason	1	Mandatory	A code that indicates the reason that a reading was collected or generated. This should be set to:
						• 02 - Special Read that is chargeable
	4	ELD	Dood Tyma	1	Mandatany	O9 - Special Read that is non-chargeable A code that indicates whether the reading is:
	4	FLD	Read Type	1	Mandatory	A code that indicates whether the reading is:
						• A - Actual

Segment and Field Lev	el Identi	fier – 300S Message	Rpt	Optionality	Description and Purpose
					• E – Estimated – No Access
					EF – Estimate – Implausible / No Read Available
4	FLD	Previous Read Date	1	Mandatory	The date from which consumption is calculated. This will be the previous
					actual read date or, where there has been a subsequent billing estimate, the
					date of the billing estimate. This is provided for kWh registers only.
4	FLD	Consumption	1	Optional	The consumption in kWh calculated from the Previous Read Date. This is
					provided for kWh registers only.
4	FLD	Read Status	1	Mandatory	This will be set to one of the following:
					RV - Reading Valid
					RREL - Reading - Manually released
					REST - Reading estimated
					• RENS - Reading estimated - not be used for settlement. Used
					where estimates are generated for all registers.
4	FLD	Register Type	1	Mandatory	Register Type is a code to indicate the purpose of the register.
					Refer to the Data Codes published by NIE Networks for a complete list of
					codes.

2.4.3 Message 300W: Withdrawn Non-Interval Readings

Purpose and Description of Message

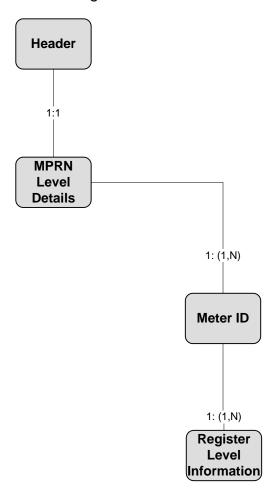
Message 300W is sent by NIE Networks to a Supplier to advise withdrawn scheduled, special and customer meter readings and withdrawn estimates.

Message 300W is used in the following Market Process:

Process Number and Title	Use of Message
MP NI 14 Readings Processing – Non Interval	To advise withdrawn meter readings or estimates to the Supplier

Data Hierarchy Diagram

300W Message



Message Structure and Interpretation

Segme	ent and F	Field Level Identifier – 300W Message	Rpt	Optionality	Description and Purpose
1 Message Header				Mandatory	See Common Data Segments for detailed notes on structure and population.
1 MP	RN Leve	el Information	1	Mandatory	
2	FLD	MPRN	1	Mandatory	The unique identifying reference number for the Meter Point for which the Change of Supplier readings are sent.
2	FLD	Market Participant Business Reference	1	Optional	A reference to the Market Participant Business Reference provided in the Message Header sent by the Supplier to NIE Networks. This enables the Supplier to uniquely identify the original message leading to the reading that is now being withdrawn.
2	FLD	Networks Reference Number	1	Mandatory	A reference allocated by NIE Networks to the readings
2	FLD	Load Profile	1	Mandatory	A code denoting the standard load profile that determines, when coupled with Timeslot, the derived profile that is applied to consumption usage for settlement purposes.
					Refer to the Data Codes published by NIE Networks for a complete list of codes.
2	FLD	DUoS Group	1	Mandatory	This field will contain the code for the DUoS Tariff applied by NIE Networks to the Meter Point.
					Refer to the Data Codes published by NIE Networks for a complete list of codes.
2	FLD	Meter Point Status	1	Mandatory	 The connection status of the Meter Point. This will be one of the following: D - Meter Point was De-Energised E - Meter Point was Energised
2	FLD	Read Date	1	Mandatory	The date on which the readings provided in the message were read from the meter or the date to which any estimate applies. The time of the readings is assumed to be the end of the day.
2	FLD	Withdrawal Reason	1	Mandatory	A code to indicate the reason that the reading was withdrawn. This will be set to one of the following values: • A1- Erroneous Change of Supplier • A2 - Disputed CoS Meter Reading - a Change of Supplier reading or any other reading is disputed and is withdrawn as a result of the dispute • A3 - Change of Supplier Cancellation - the reading was billed or

Segment and Field Level Identifier – 300W Message				ifier – 300W Message	Rpt	Optionality	Description and Purpose
							attributed to the wrong Supplier because of a Change of Supplier cancellation • A4 - Change of Supplier - the reading was billed or attributed to the wrong Supplier other than as a result of a Change of Supplier cancellation. These readings can be readings other than those used for the Change of Supplier itself. • B1 - Incorrect MPRN - the reading was applied to the wrong MPRN • C1 - Incorrect Estimation - an estimate is incorrect and is withdrawn as a result of a process other than a dispute from a Supplier • C2 - Incorrect Meter Reading - a reading is incorrect and is withdrawn as a result of a process other than a dispute from a Supplier • D1 - Incorrect Rate - a reading has been billed using an incorrect UoS Tariff • D2 - Incorrect Billing Period - a reading has been billed to an incorrect period • D3 - Incorrect Meter - the reading was applied to the wrong meter or meter register
2	SEG	Meter I			1N	Mandatory	
	3 FLD		Meter Category		1	Optional	Not Used.
	3	FLD		Number	1	Mandatory	The physical or badge number found on the meter.
	3 SEC		Registe	er Level Information	1N	Mandatory	This is the segment that stores information relating to the registers displayed on a meter.
			FLD	Meter Register Sequence	1	Mandatory	Meter Register Sequence is an identifier to distinguish between different meter registers on a physical meter or set of meters.
			FLD	Timeslot	1	Mandatory	A code that indicates the period for which data is recorded. Refer to the Data Codes published by NIE Networks for a complete list of codes.
	4			Unit of Measurement	1	Mandatory	Unit of measurement is a code that indicates the value that is measured e.g. KWh. Refer to the Data Codes published by NIE Networks for a complete list of

Segment and Field Lev	el Identi	fier – 300W Message	Rpt	Optionality	Description and Purpose
					codes.
4	FLD	Meter Multiplier	1	Mandatory	Meter Multiplier is a factor to be applied to an advance or reading at a
					register in order to derive a true value.
4	FLD	Reading Value	1	Mandatory	Reading Value is the reading for this register.
4	FLD	Read Reason	1	Mandatory	A code that indicates the reason that a reading was collected or generated.
					This should be set to:
					• 01 - Scheduled Read
					• 14 – Estimate
					• 27 – Change of Legal Entity
4	FLD	Read Type	1	Mandatory	A code that indicates whether the reading is:
					• A - Actual
					• E – Estimated – No Access
					• ED – Estimated – Reading dated before last DUoS bill
					• EF – Estimate – Implausible / No Read Available
					• EP – Estimate (Block Planned)
					• EU – Estimate (Block Unplanned)
					CU - Customer Reading
					SC - Supplier Provided Customer Reading
4	FLD	Previous Read Date	1	Mandatory	The date from which consumption is calculated. This will be the previous
					actual read date or, where there has been a subsequent billing estimate, the
					date of the billing estimate. This is provided for kWh registers only.
4	FLD	Consumption	1	Optional	The consumption in kWh calculated from the Previous Read Date. This is
					provided for kWh registers only.
4	FLD	Read Status	1	Mandatory	This will be set to:
					RWI - Reading withdrawn
4	FLD	Register Type	1	Mandatory	Register Type is a code to indicate the purpose of the register.
					Refer to the Data Codes published by NIE Networks for a complete list of
					codes.

2.4.4 Message 303R: Customer Read Rejection

Purpose and Description of Message

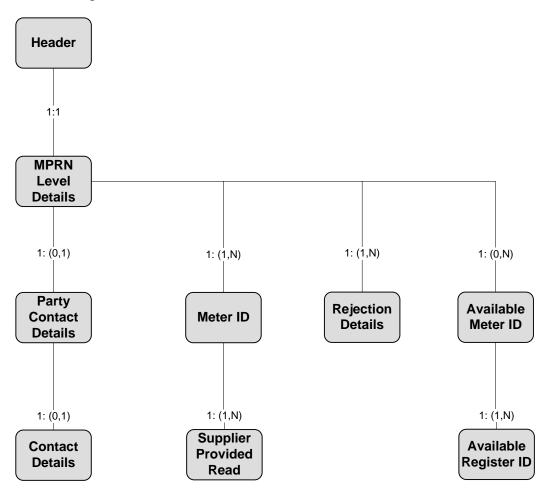
Message 303R is sent by NIE Networks to a Supplier to advise that a customer reading has been rejected.

Message 303R is used in the following Market Processes:

Process Number and Title	Use of Message
MP NI 1 Change of Supplier – Non Interval Credit	To advise the Supplier when a Supplier provided Change of Supplier reading is rejected.
MP NI 14 Readings Processing – Non Interval	To advise the Supplier when a Supplier provided read has been rejected
MP NI 25 Change of Legal Entity	To advise the Supplier when a Supplier provided Change of Legal Entity reading is
	rejected.
MP NI 37 Change of Supplier - Keypad	To advise the Supplier when a Supplier provided Change of Supplier reading is rejected.

Data Hierarchy Diagram

303R Message



Segment and Field Level Identifier – 303R Message						Optionality	Description and Purpose
1 Message Header						Mandatory	See Common Data Segments for detailed notes on structure and population.
1 MP	1 MPRN Level Information					Mandatory	
2	FLD	MPRN			1	Mandatory	The unique identifying reference number for the Meter Point for which the readings are rejected.
2	FLD	Supplie	r ID		1	Mandatory	The Supplier Id provided by the Supplier.
2	FLD	Market	Participa	ant Business Reference	1	Mandatory	A reference to the Transaction Reference provided in the Message Header of the 010, 016 or 210 message sent by the Supplier. It enables the Supplier to uniquely identify the original message to which this is the response.
2	FLD	Read D	ate		1	Mandatory	The Read Date provided by the Supplier.
2	FLD	Read R	eason		1	Mandatory	The Read Reason provided by the Supplier.
2	SEG	Party Contact Details				Optional	The Party Contact Details if and as provided by NIE Networks. See Common Data Segments for detailed notes on structure and population.
2	SEG Meter ID			1N	Mandatory		
	3 FLD Meter Category			1	Optional	Not Used.	
	3	FLD	Serial I	Number	1	Optional	The Serial Number as and if provided by the Supplier.
	3	SEG	Supplie	er Provided Read	1N	Mandatory	
		4	FLD	Meter Register Sequence	1	Optional	The Meter Register Sequence if and as provided by the Supplier.
		4	FLD	Timeslot	1	Optional	The Timeslot if and as provided by the Supplier.
		4	FLD	Reading Value	1	Mandatory	The Reading provided by the Supplier.
		4	FLD	Read Type	1	Mandatory	The Read Type provided by the Supplier.
		4	FLD	Register Type	1	Optional	The Register Type if and as provided by the Supplier.
2	SEG	Rejecti	on Detail	ls	1N	Mandatory	
	3		Reject	Reason	1	Mandatory	A code to identify why data was rejected: IMP - Invalid MPRN IMT - Invalid meter ID IRP - Invalid Register Type IRS - Invalid register sequence ITI - Invalid timeslot IID - Invalid/Incomplete Data (e.g. no Register Sequence Number) SNR - Supplier is not registered to MPRN and does not have a pending registration TIM - Outside Timescale (The Read Date has not passed the date

Segme	Segment and Field Level Identifier – 303R Message					Optionality	Description and Purpose
							validations specified for messages 010, 016 or 210)
							Refer to the Data Codes published by NIE Networks for a complete list of codes.
2	SEG	Availab	able Meter ID			Optional	This segment will be provided if the readings were rejected due to invalid or absent meter or register data.
	3	FLD	Meter Category			Optional	Not Used.
	3	FLD	LD Serial Number			Mandatory	The physical or badge number found on the meter.
	3	SEG	SEG Available Register ID		1N	Mandatory	
	4		FLD	Meter Register Sequence	1	Mandatory	Meter Register Sequence is an identifier to distinguish between different meter registers on a physical meter or set of meters.
	4		FLD	Timeslot	1	Mandatory	A code that indicates the period for which data is recorded.
							Refer to the Data Codes published by NIE Networks for a complete list of codes.
		4	FLD	Register Type	1	Mandatory	Register Type is a code to indicate the purpose of the register.
							Refer to the Data Codes published by NIE Networks for a complete list of codes.

2.4.5 Message 305: Non Settlement Estimates

Purpose and Description of Message

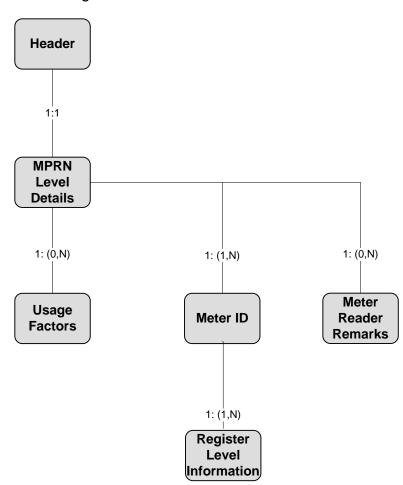
Message 305 is sent by NIE Networks to a Supplier to advise that an estimate has been created for use in DUoS Billing due to a no-read or implausible read situation.

Message 305 is used in the following Market Process:

Process Number and Title	Use of Message
MP NI 14 Readings Processing – Non Interval	To advise the Supplier that an estimate has been created for use in DUoS Billing due to a
	no-read situation

Data Hierarchy Diagram

305 Message



Segme	nt and F	ield Level Identifier – 305 Message	Rpt	Optionality	Description and Purpose		
1 Me	ssage Hea	ader	1	Mandatory	See Common Data Segments for detailed notes on structure and population.		
1 MP	RN Leve	l Information	1	Mandatory			
2	FLD	MPRN	1	Mandatory	The unique identifying reference number for the Meter Point for which the		
					Change of Supplier readings are sent.		
2	FLD	Market Participant Business Reference	1	Optional	Not Used.		
2	FLD	Networks Reference Number	1	Mandatory	A reference allocated by NIE Networks to the readings. This will be the		
					Read Id.		
2	FLD	DUoS Group	1	Mandatory	This field will contain the code for the DUoS Tariff applied by NIE		
					Networks to the Meter Point.		
					Refer to the Data Codes published by NIE Networks for a complete list of		
					codes.		
2	FLD	Meter Point Status	1	Mandatory	The connection status of the Meter Point. This will be one of the following:		
					D - Meter Point was De-Energised		
					E - Meter Point was Energised		
2	FLD	Read Date	1	Mandatory	The date of the estimates provided in the message. The estimates will be		
					dated at the scheduled read date.		
2	FLD	No Read Code	1	Mandatory	A code to describe why no read was obtained on a site visit or why no site		
					visit was made.		
					Refer to the Data Codes published by NIE Networks for a complete list of		
					codes.		
2	FLD	Debit Re-Estimate Flag	1	Optional	This field will be set to "Y" when all of the conditions below are true:		
					The AUF calculated for a timeslot from a set of meter readings		
					exceeds twice the value of the previous EUF for the timeslot; and		
					Two or more consecutive quarterly bills have been estimated; and		
					No actual readings or settlement relevant estimates or have been		
					billed in the last six months		
					By default, this field will be set to "N".		
2	SEG	Meter ID	1N	Mandatory			
	3	FLD Meter Category	1	Optional	Not Used.		
	3	FLD Serial Number	1	Mandatory	The physical or badge number found on the meter.		

Segment and Field Leve	el Identi	fier – 305 Message	Rpt	Optionality	Description and Purpose	
3 SEG	Registe	er Level Information	1N	Mandatory	This is the segment that stores information relating to the registers displayed	
					on a meter.	
4	FLD	Meter Register Sequence	1	Mandatory	Meter Register Sequence is an identifier to distinguish between different	
					meter registers on a physical meter or set of meters.	
4	FLD	Timeslot	1	Mandatory	A code that indicates the period for which data is recorded.	
					Refer to the Data Codes published by NIE Networks for a complete list of codes.	
4	FLD	Unit of Measurement	1	Mandatory	Unit of measurement is a code that indicates the value that is measured e.g. KWh.	
					Refer to the Data Codes published by NIE Networks for a complete list of codes.	
4	FLD	Meter Multiplier	1	Mandatory	Meter Multiplier is a factor to be applied to an advance or reading at a register in order to derive a true value.	
4	FLD	Reading Value	1	Mandatory	Reading Value is the reading for this register.	
4	FLD	Read Reason	1	Mandatory	A code that indicates the reason that a reading generated. This should be set to: • 01 - Scheduled Read • 14 - Reading Estimated	
4	FLD	Read Type	1	Mandatory	A code that indicates whether the reading is: • E - Estimated - No Access • EF - Estimate - Implausible / No Read Available • EP - Estimate - (Block Planned) • EU - Estimate - (Block Unplanned)	
4	FLD	Previous Read Date	1	Mandatory	The date from which consumption is calculated. This will be the previous actual read date or, where there has been a subsequent billing estimate, the date of the billing estimate. This is provided for kWh registers only.	
4	FLD	Consumption	1	Optional	The consumption in kWh calculated from the Previous Read Date. This is provided for kWh registers only.	
4	FLD	Register Type	1	Mandatory	Register Type is a code to indicate the purpose of the register. Refer to the Data Codes published by NIE Networks for a complete list of codes.	
2 SEG Meter F	Reader R	emarks	0N	Optional	This segment stores information captured by the meter reader describing any	

Segmen	nt and F	ield Lev	el Identifier – 305 Message	Rpt	Optionality	Description and Purpose
						issues encountered while attempting to obtain a meter reading.
	3	FLD	Meter Reader Remark Code	1	Mandatory	Meter Reader Remark Code indicates the nature of the issue encountered
						while attempting to obtain a meter reading.
						Refer to the Data Codes published by NIE Networks for a complete list of codes.
	3	FLD	Meter Reader Remark Text	1	Optional	Meter Reader Remark Text provides extra information relating to the issue.
						Refer to the Data Codes published by NIE Networks for a complete list of codes.

2.4.6 Message 308: Non-Interval Load Factor Reading Exception

Purpose and Description of Message

Message 308 will not be used by NIE Networks.

2.4.7 Message 321: Read Cycle Notification

Purpose and Description of Message

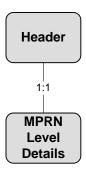
Message 321 is sent by the Data Collector to a Supplier to advise a change to the read schedule for a Non-Interval Meter Point.

Message 321 is used in the following Market Process:

Process Number and Title	Use of Message
MP NI 14 Readings Processing – Non Interval	To advise the Supplier of a change to the read schedule for an Non-Interval Meter Point

Data Hierarchy Diagram

321 Message



Segme	nt and F	ield Level Identifier – 321 Message	Rpt	Optionality	Description and Purpose
1 Mes	sage Hea	ader	1	Mandatory	See Common Data Segments for detailed notes on structure and population.
1 MP	RN Leve	l Information	1	Mandatory	
2	FLD	MPRN	1	Mandatory	The unique identifying reference number for the Meter Point for which read
					schedule is provided
2	FLD	Read Frequency Code	1	Mandatory	A code that indicates the frequency with which a meter reading is scheduled
					to be taken by NIE Networks Data Collector. The value will typically be::
					Q - Quarterly
2	FLD	Read Cycle	1	Mandatory	The read cycle that a meter is due to be read. The read cycle comprises a
					week identifier and a day identifier.

2.4.8 Message 341: Interval Meter Daily Data

Purpose and Description of Message

Message 341 is sent by NIE Networks in the following circumstances:

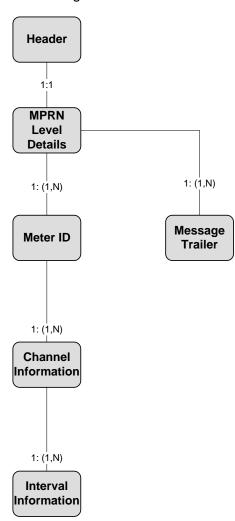
• To a Supplier to advise processed Interval meter readings data for Import Channels

Message 341 is used in the following Market Process:

Process Number and Title	Use of Message
MP NI 15 Data Processing - Interval	To advise the Supplier and NIE Networks of processed interval meter import data

Data Hierarchy Diagram

341 Message



Segment and Field Level Identifier – 341 Message					Rpt	Optionality	Description and Purpose
1 Mes	1 Message Header					Mandatory	See Common Data Segments for detailed notes on structure and population.
1 MP	RN Level	l Informa	ition		1:N	Mandatory	
2	FLD	MPRN			1	Mandatory	The unique identifying reference number for the Meter Point for which
							Interval reading data is provided.
2	FLD	Read D	ate		1	Mandatory	The date on which the import recorded in the message occurred.
2	FLD	Transfo	rmer Lo	ss Factor (Applied)	1	Optional	Not Used.
2	FLD	Alert F	lag		1	Mandatory	A code that indicates the validity of the channel data
							VV - all values are valid
							VI - values are invalid. Typically this will be due to non-zero
							values on a de-energised site
							Refer to the Data Codes published by NIE Networks for a complete list of
							codes.
2	FLD	Reading Replacement Version Number		1	Mandatory	The Version Number increments every time there is a replacement reading	
						(actual or estimate).	
2	SEG		Meter ID			Mandatory	
	3	FLD		Category	1	Optional	Not Used.
	3	FLD		Number	1	Mandatory	The physical or badge number found on the meter.
	3	SEG	Register/Channel Information		1:N	Mandatory	This segment provides the information pertaining to the registers or channels
							on meters that have been fitted at the meter point.
							Most import sites will have two channels reported
		4	FLD	Metering Interval	1	Mandatory	The length in minutes of a period when consumption is recorded on an
							Interval meter. This will be set to:
							• 30 - denoting a half hour interval
		4	FLD	Register Type	1	Mandatory	A code that indicates the type of value recorded for the channel.
							• 60 - denoting import kWh
							• 61 - denoting reactive lag
							Refer to the Data Codes published by NIE Networks for a complete list of
							codes.

	4	FLD	Unit of	Measurement	1	Mandatory	A code that indicates the value that is measured.
	4	SEG	Intonio	l Information	1:N	Mandatory	Refer to the Data Codes published by NIE Networks for a complete list of codes. Except for days on which the clocks change, there will normally be 48
	4	SEG	Interva	п ппогшаноп	1:1N	Mandatory	intervals.
5 FLD Interval Value				Interval Value	1	Mandatory	The value of a reading or estimate (refer to Interval Status) in the form passed to NIE Networks measured in the units identified by Unit of Measurement including the application of multipliers and transformer loss factors where appropriate.
	5 FLD Interval Period Timestamp				1	Mandatory	The start time of an interval period when data is recorded on a Interval meter, expressed in local (Northern Ireland) time.
		5	FLD	Interval Status	1	Mandatory	A code that indicates the status of the value for the interval. It can take the following values: • VEST - indicates that the value is estimated by the data collector • VCHG - indicates a value that has been manually changed • VVAK - indicates an actual value is collected or totalised from metering outstation(s) Refer to the Data Codes published by NIE Networks for a complete list of codes.
	5 FLD Value (Net Active)				1	Optional	For AGUs only, the net of the Interval Demand Value for Import kWh and the Interval Demand Value for Export kWh. Where Import is less than export, this field will contain 0
1 Message Tra	ailer				1	Mandatory	
2 FLD						Mandatory	A count of the number of MPRN level segments included in the message.
2 FLD					1	Mandatory	A count of the number of Channel level Details segments included in the message.

2.4.9 Message 342: Interval Meter Daily Data (Export)

Message 342 is sent by NIE Networks in the following circumstances:

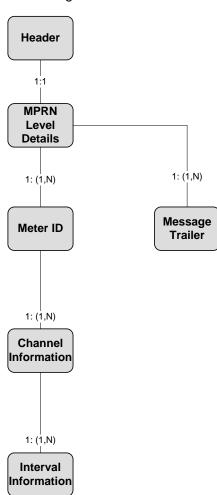
- To a Supplier to advise processed Interval meter readings data for Export Channels
- To the Generator to advise processed Interval meter readings data for Export Channels

Message 342 is used in the following Market Process:

Process Number and Title	Use of Message
MP NI 15 Data Processing - Interval	To advise the Supplier of processed interval meter export data

Data Hierarchy Diagram





Segme	nt and F	ield Lev	el Identi	fier – 342 Message	Rpt	Optionality	Description and Purpose
1 Mes	ssage Hea	ader			1	Mandatory	See Common Data Segments for detailed notes on structure and population.
1 MPRN Level Information						Mandatory	
2	FLD	MPRN			1	Mandatory	The unique identifying reference number for the Meter Point for which
							Interval reading data is provided.
2	FLD		ead Date			Mandatory	The date on which the export recorded in the message occurred.
2	FLD	Transfo	rmer Lo	ss Factor (Applied)	1	Optional	Not Used.
2	FLD	Generator MPID			1	Optional	The participant identification code of a Generator, provided only where data
							is provided for an export site.
2	FLD	Generation Unit Id			1	Optional	The unique identifier referencing the generation unit linked to this MPRN,
							provided only where data is provided for an export site.
2	FLD	Alert Flag			1	Mandatory	A code that indicates the validity of the channel data
							VV - all values are valid
							VI - values are invalid. Typically this will be due to non-zero
							values on a de-energised site
							Refer to the Data Codes published by NIE Networks for a complete list of
							codes.
2	FLD	Reading Replacement Version Number			1	Mandatory	The Version Number increments every time there is a replacement reading
							(actual or estimate).
2	SEG	Meter ID 1 Mandatory		-			
	3	FLD	Meter Category		1	Optional	Not Used.
	3	FLD	Serial Number		1	Mandatory	The physical or badge number found on the meter.
	3	SEG	Register/Channel Information		1:N	Mandatory	This segment provides the information pertaining to the registers or channels
							on meters that have been fitted at the meter point.
				T			Most export sites will have three channels reported.
			FLD	Metering Interval	1	Mandatory	The length in minutes of a period when consumption is recorded on an
							Interval meter. This will be set to:
							• 30 - denoting a half hour interval

	4	FLD	Registe	er Type	1	Mandatory	A code that indicates the type of value recorded for the channel. • 62 - denoting export kWh • 63 - denoting reactive lag Refer to the Data Codes published by NIE Networks for a complete list of codes.
	4	FLD	Unit of Measurement		1	Mandatory	A code that indicates the value that is measured. Refer to the Data Codes published by NIE Networks for a complete list of codes.
	4	SEG	Interva	l Information	1:N	Mandatory	Except for days on which the clocks change, there will normally be 48 intervals.
	5 FLD			Interval Value	1	Mandatory	The value of a reading or estimate (refer to Interval Status) in the form passed to NIE Networks measured in the units identified by Unit of Measurement including the application of multipliers and transformer loss factors where appropriate.
	5 FLD Interval Period Timestamp			1	Mandatory	The start time of an interval period when data is recorded on an Interval meter, expressed in local (Northern Ireland) time.	
	5 FLD Interval Status 5 FLD Value (Net Active)			1	Mandatory	A code that indicates the status of the value for the interval. It can take the following values: • VEST - indicates that the value is estimated by the data collector • VCHG - indicates a value that has been manually changed • VVAK - indicates an actual value is collected or totalised from metering outstation(s) Refer to the Data Codes published by NIE Networks for a complete list of codes.	
				1	Optional	Not populated	
1 Message Trailer						Mandatory	
2 FLD MPRN Count					1	Mandatory	A count of the number of MPRN level segments included in the message.
2 FLI	D Channe	l Count			1	Mandatory	A count of the number of Channel level Details segments included in the message.