

Retail Market Guide NI 34a

DUoS Business Specification

07/11/2023

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1 INTRODUCTION

This document is a Business Specification to assist Suppliers and Systems Implementers in:

- The interpretation of the itemised DUoS Bill received from NIE Networks
- The interpretation of the DUoS Summary report

The Group section contains:

- An outline of the scope and business context
- A directory with a section for each separate file which includes:
 - A description of each file and when it will be used
 - A table containing a description of how each segment and field will be populated

1.1 History of Changes

Version	Source of Change	Description of Change
0.1	NIE	Initial Draft
1.0	NIE	Baseline CDA Board Approved
3.0	NIE Networks	Updated to incorporate change of name from NIE to NIE Networks and re-version alignment to 3.0
3.1	NIE Networks	Updated for System Separation
3.2	D.McSwiggan (NIEN)	Updated for “ <i>Decision on MIC Charging Methodology</i> ” Decision Paper NIE Networks 17/09/2020 – applies to all customers who’s MIC is greater than or equal to 70kVA

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1.2 Document References

Document Reference	Document name
MG NI 34	DUoS, Transaction and PSO Billing

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1.3 Syntax

A segment, denoted SEG, is a group of one or more data fields

A field, denoted FLD, is a single data field

The repeat (rpt) column is used as follows:

- 1 – indicates that the field or segment occurs once if mandatory; may occur once or not at all if optional; or occurs once if the conditions described under 'description' apply
- 1:N – indicates that the field or segment occurs once or many times if mandatory; may occur any number of times or not at all if optional; or occurs once or many times if the conditions described under 'description' apply

2 DUoS BILLING GROUP

2.1 Scope and Business Context

The purpose of the DUoS Billing file is to enable a Supplier to understand the detail of the monthly DUoS Bill.

The DUoS Bill will not be delivered using the same technical approach as the Registration, Data Processing and Fieldwork messages.

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2.2 Usage Summary

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

File	Title	Sender	Recipient	Trigger	Predecessor	MG Ref.
	Itemised DUoS Bill	NIE Networks	Supplier	Monthly DUoS Billing	NI DUoS Billing Files Business Specification X4.0	NI 34
	Summarised DUoS Bill by DUoS Group	NIE Networks	Supplier	Monthly DUoS Billing	None	NI 34

2.3 Data Codes

As per Market Messages Data Definitions Data Codes.

An exception exists for aggregated generator units (AGU). DUoS Group & Rate Category will be suffixed with an 'A'

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2.4 [Directory – NIE Networks to Supplier](#)

2.4.1 Itemised DUoS Bill

Purpose and Description of File

The Itemised DUoS Bill is sent by NIE Networks to a Supplier in order to:

- Advise detail of the monthly DUoS Bill

It is used in the following Market Process:

Process Number and Title	
MG NI 34	DUoS, Transaction and PSO Billing

File Structure and Interpretation

Each Charge Information record relates to an individual charge for the month and contains the MPRN, Invoice type, DUoS Tariff, DUoS Group, Timeslot and Date information as relevant to the Record Type. Each Charge Information record refers to a time period bounded by start and end dates which represent the effective dates for the Supplier registration, Change of tenant and/or cyclical bill period to which the charge applies.

Segment and Field Level Identifier			Rpt	Optionality	Description / Purpose and composition instructions
1 Header			1	Mandatory	
2	FLD	Segment ID	1	Mandatory	This is an identifier for the header segment set to 1
2	FLD	Invoice Number	1	Mandatory	The number allocated by NIE Networks to the invoice for which this file contains the itemised data.
2	FLD	Sender ID	1	Mandatory	This is the unique identifier of the Market Participant sending the file.
2	FLD	Recipient ID	1	Mandatory	This is the unique identifier of the Market Participant to whom the file is sent.

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2	FLD	Time Stamp	1	Mandatory	This is a date field and a time field indicating the date and time that the file left the senders application.
1	Charge Information		1:N	Mandatory	
2	FLD	Segment ID	1	Mandatory	This is an identifier for a charge line and is set to 2
2	FLD	Invoice Number	1	Mandatory	The number allocated by NIE Networks to the invoice for which this file contains the itemised data.
2	FLD	Invoice Item Number	1	Mandatory	Transaction reference number - It is a Combination of the invoice document number & the item & sequence number
2	FLD	MPRN	1	Mandatory	The unique identifying reference number for the Meter Point for which an amount is itemised
2	FLD	AdjustRef	1	Mandatory	Reversed invoice item number
2	FLD	Invoice Type	1	See Description	An identifier of the type of charge made. This will be: 1S – New Charge - Sequential Bill e.g. Scheduled or final billing / invoicing of any MPRN 2S – Adjustment Credit - Reversal of Sequential Bill. Full reversal of any scheduled or final billing / invoicing of any MPRN 3S – Adjustment Debit - Re-billing / invoicing of any sequential bill 2C – Adjustment Credit - Manual billing credit 2D – Adjustment Credit - Reversal of manual billing debit 3C – Adjustment Debit - Reversal of manual billing credit and standing charges 3D – Adjustment Debit - manual billing debit
2	FLD	DUoS Group	1	See Description	The Customer type T01 – Domestic T02 – Combined T03 - Commercial < 70 KVA T03A - Commercial < 70 KVA (AGU) T10 - Commercial MV > 70 KVA T10A - Commercial MV > 70 KVA (AGU)

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					T20 - Commercial HV > 70 KVA T20A - Commercial HV > 70 KVA (AGU) T30 - Commercial EHV > 70 KVA T30A - Commercial EHV > 70 KVA (AGU) T50 - Generator tariff
2	FLD	Billing date from	1	Mandatory	The start date with which the charge applies to
2	FLD	Billing date to	1	Mandatory	The end date with which the charge applies to
2	FLD	DUoS Tariff	1	Mandatory	A code that denotes the Distribution use of system tariff applied by NIE Networks to the Meter Point from the start date.
2	FLD	StandChrg	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	24hr KWH	1	Optional	The number of units
2	FLD	24hr (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	D01 KWH	1	Optional	The number of units
2	FLD	D01 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	N01 KWH	1	Optional	The number of units
2	FLD	N01 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	D02 KWH	1	Optional	The number of units
2	FLD	D02 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	N02 KWH	1	Optional	The number of units
2	FLD	N02 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	N03 KWH	1	Optional	The number of units
2	FLD	N03 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	N04 KWH	1	Optional	The number of units
2	FLD	N04 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	HT1 KWH	1	Optional	The number of units
2	FLD	HT1 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	HT2 S&W Ht KWH	1	Optional	The number of units
2	FLD	HT2 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.

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2	FLD	HT3 WHO KWH	1	Optional	The number of units
2	FLD	HT3 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	W01 KWH	1	Optional	The number of units
2	FLD	W01 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	W02 KWH	1	Optional	The number of units
2	FLD	W02 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	FR1 KWH	1	Optional	The number of units
2	FLD	FR1 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	FR2 KWH	1	Optional	The number of units
2	FLD	FR2 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	FR3 KWH	1	Optional	The number of units
2	FLD	FR3 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	FR4 KWH	1	Optional	The number of units
2	FLD	FR4 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	KP5 KWH	1	Optional	The number of units
2	FLD	KP5 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	KP6 KWH	1	Optional	The number of units
2	FLD	KP6 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	KP7 KWH	1	Optional	The number of units
2	FLD	KP7 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	KP8 KWH	1	Optional	The number of units
2	FLD	KP8 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R21 KWH	1	Optional	The number of units
2	FLD	R21 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R22 op KWH	1	Optional	The number of units
2	FLD	R22 op (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R23 op KWH	1	Optional	The number of units
2	FLD	R23 op (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R24 op KWH	1	Optional	The number of units

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2	FLD	R24 op (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R25 hr op KWH	1	Optional	The number of units
2	FLD	R25 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	Unmtrd KWH	1	Optional	The number of units
2	FLD	Unmtrd (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	SMO KWH	1	Optional	The number of units - Interval
2	FLD	SMO (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	NFD KWH	1	Optional	The number of units - Interval
2	FLD	NFD (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	DJD KWH	1	Optional	The number of units - Interval
2	FLD	DJD (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	NKP KWH	1	Optional	The number of units - Interval
2	FLD	NKP (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	DJPK KWH	1	Optional	The number of units - Interval
2	FLD	DJPK (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	E&W KWH	1	Optional	The number of units - Interval
2	FLD	E&W (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	NT KWH	1	Optional	The number of units - Interval
2	FLD	NT (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	RPC kVARh	1	Optional	The number of units - Interval
2	FLD	RPC (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	CSC kVA	1	Optional	The number of units - Interval
2	FLD	CSC (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	MIC kVA	1	Optional	The number of units - Interval
2	FLD	MIC (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	MXC Con kVA	1	Optional	The number of units - Interval
2	FLD	MXC (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R26 KWH	1	Optional	The number of units

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2	FLD	R26 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	Total Revenue	1	Optional	Total revenue excluding VAT for itemised line
2	FLD	Rev inc VAT	1	Optional	Total revenue including VAT for itemised line

1	Trailer		1	Mandatory	
2	FLD	Segment ID	1	Mandatory	This is an identifier for a charge line and is set to 3
2	FLD	Total Detail Lines	1	Mandatory	The total of the itemised detail lines contained in the DUoS backing details
2	FLD	Total Revenue	1	Mandatory	Total revenue excluding VAT

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2.4.2 DUoS Summary report

Purpose and Description of File

The Summary of the DUoS Bill at DUoS Group is sent by NIE Networks to a Supplier in order to:

- Summarise at DUoS group(Customer type) the monthly DUoS Bill

It is used in the following Market Process:

Process Number and Title	
MG NI 34	DUoS, Transaction and PSO Billing

File Structure and Interpretation

Each Charge Information record relates to a summary at DUoS Group for the month and contains the customer count, total units, total new revenue, total credit adjustments revenue and total debit adjustments revenue relevant to the DUoS Group.

Segment and Field Level Identifier			Rpt	Optionality	Description / Purpose and composition instructions
1 Header			1	Mandatory	
2	FLD	Segment ID	1	Mandatory	This is an identifier for the header segment set to 1
2	FLD	Invoice Number	1	Mandatory	The number allocated by NIE Networks to the invoice for which this file contains the itemised data.
2	FLD	Recipient ID	1	Mandatory	This is the unique identifier of the Market Participant to whom the file is sent.
2	FLD	Time Stamp	1	Mandatory	This is a date field and a time field indicating the date and time that the file left the senders application.

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1 Charge Information			1:N	Mandatory	
2	FLD	DUoS Group	1	See Description	The Customer type T01 – Domestic T02 – Combined T03 - Commercial < 70 KVA T03A - Commercial < 70 KVA (AGU) T10 - Commercial MV > 70 KVA T10A - Commercial MV > 70 KVA (AGU) T20 - Commercial HV > 70 KVA T20A - Commercial HV > 70 KVA (AGU) T30 - Commercial EHV > 70 KVA T30A - Commercial EHV > 70 KVA (AGU) T50 - Generator tariff
2	FLD	Customer Count	1	Mandatory	Number of customers billed in specified DUoS Group
2	FLD	StandChrg	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	24hr KWH	1	Optional	The number of units
2	FLD	24hr (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	D01 KWH	1	Optional	The number of units
2	FLD	D01 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	N01 KWH	1	Optional	The number of units
2	FLD	N01 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	D02 KWH	1	Optional	The number of units
2	FLD	D02 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	N02 KWH	1	Optional	The number of units
2	FLD	N02 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	N03 KWH	1	Optional	The number of units
2	FLD	N0 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	N04 KWH	1	Optional	The number of units
2	FLD	N04 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.

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2	FLD	HT1 KWH	1	Optional	The number of units
2	FLD	HT1 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	HT2 S&W Ht KWH	1	Optional	The number of units
2	FLD	HT2 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	HT3 WHO KWH	1	Optional	The number of units
2	FLD	HT3 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	W01 KWH	1	Optional	The number of units
2	FLD	W01 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	W02 KWH	1	Optional	The number of units
2	FLD	W02 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	FR1 KWH	1	Optional	The number of units
2	FLD	FR1 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	FR2 KWH	1	Optional	The number of units
2	FLD	FR2 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	FR3 KWH	1	Optional	The number of units
2	FLD	FR3 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	FR4 KWH	1	Optional	The number of units
2	FLD	FR4 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	KP5 KWH	1	Optional	The number of units
2	FLD	KP5 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	KP6 KWH	1	Optional	The number of units
2	FLD	KP6 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	KP7 KWH	1	Optional	The number of units
2	FLD	KP7 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	KP8 KWH	1	Optional	The number of units
2	FLD	KP8 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R21 KWH	1	Optional	The number of units
2	FLD	R21 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R22 op KWH	1	Optional	The number of units

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2	FLD	R22 op (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R23 op KWH	1	Optional	The number of units
2	FLD	R23 op (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R24 op KWH	1	Optional	The number of units
2	FLD	R24 op (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R25 hr op KWH	1	Optional	The number of units
2	FLD	R25 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	Unmtrd KWH	1	Optional	The number of units
2	FLD	Unmtrd (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	SMO KWH	1	Optional	The number of units - Interval
2	FLD	SMO (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	NFD KWH	1	Optional	The number of units - Interval
2	FLD	NFD (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	DJD KWH	1	Optional	The number of units - Interval
2	FLD	DJD (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	NKP KWH	1	Optional	The number of units - Interval
2	FLD	NKP (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	DJPK KWH	1	Optional	The number of units - Interval
2	FLD	DJPK (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	E&W KWH	1	Optional	The number of units - Interval
2	FLD	E&W (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	NT KWH	1	Optional	The number of units - Interval
2	FLD	NT (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	RPC kVARh	1	Optional	The number of units - Interval
2	FLD	RPC (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	CSC kVA	1	Optional	The number of units - Interval
2	FLD	CSC (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	MIC kVA	1	Optional	The number of units - Interval

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2	FLD	MIC (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	MXC Con kVA	1	Optional	The number of units - Interval
2	FLD	MXC (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	R26 KWH	1	Optional	The number of units
2	FLD	R26 (£) Charge	1	Optional	The charge made, if relevant, for the item identified in this record.
2	FLD	New Charges	1	Optional	Total of all 1S - see backing details 'Invoice Type'
2	FLD	Adjustment Credits	1	Optional	Total of all 2S - see backing details 'Invoice Type'
2	FLD	Adjustment Debits	1	Optional	Total of all 3S - see backing details 'Invoice Type'

1	Trailer		1	Mandatory	
2	FLD	Description	1	Mandatory	Description of record - 'Grand Total'
2	FLD	Total new charges	1	Mandatory	Total revenue - 'New Charges' (Excluding credit adjustments)