



ElectraLink

DUoS e-billing

Business Rules Register

For

**The Distribution & Supply
Communities**

Version : 1.1

Status : LIVE

Date : 18th May 2010

Document Reference : EL/DUoS/Business rules

Change History

Version Number	Status	Date of Issue	Reason for Change
0.1	Draft	18-Mar-02	First draft of known rules
0.2	Draft	8-May-02	Update and additions to register
0.3	Draft	29-Jun-02	Updated from DUoS Sub Groups meeting (10/06/02) Rule 2 – Invoice credits Rule 8 – Dispute level of invoice Rule 9 – Disaster Recovery Rule 10 – Remittance Advice Rules 12 & 13 – Payment Timescale & UoSA Rule 15 – Migration Implementation Plan Rule 16 – Multiple Ownership of DNO's Rule 18 – Invoice Period Length Rule 19 – Supplier Gateway Problem / Error
0.4	Draft	25-Sep-02	Addition of proposed Business Rules Rule 20 – Flow Hierarchy Rule 21 – Remittance Advice, Net Credit
			Highlighted on relevant Business Rules are recommendations from last Sub Groups meeting to approve, amend or delete Business Rule.
0.5	Draft	25-Nov-02	Addition of proposed new Business Rule – for discussion. Rule 22 – Charge Type
1.0	LIVE	29-Jan-2008	Review, update and ratification of the document by the DUoS User Group Meeting 29 th Jan 2008.
1.1	Amendment	18/5/2010	Update in Line with version 6.02 of the DUoS Flows, due to Common Distribution Charging Methodology <i>terminology updates</i> .

Quality Assurance

Name	Role & Responsibility	Signature	Date
<i>Custodian:</i>			
Neil Beckwith	Senior Business Analyst		
<i>Reviewer:</i>			
Neil McKeown	Project Manager		
<i>Approved:</i>			
Paul Gath	Chief Technical Officer		

1. INTRODUCTION

1.1 Scope and Purpose

This document includes all known areas within DUoS e-billing, which require a Business Rule. The Distribution and Supply communities, along with ElectraLink have raised these rules for discussion and agreement or rejection.

The Business Rules Register will form part of the DUoS e-billing Handbook

1.2 Business Rules Types

Business Rules are classified as follows:

Type	Business Rule Type
D	The Business Rule has been initiated or created within the Distribution community.
S	The Business Rule has been initiated or created from within the Supplier community.
E	Business Rule has been initiated or created, by ElectraLink. These rules may be either specifically for the DUoS process, or may take into account the Data Transfer Service (DTS), the impact of DUoS e-billing on the service and suggested or agreed industry best practice for use of the DTS.

1.3 Business Rules Status

Business Rules are developed as a result of the ElectraLink DUoS e-billing process,

Status	Description
Raised / Under discussion	Business Rule is currently under discussion by the Distribution & Supplier Sub Groups in consultation with the wider DUoS community.
Approved for Implementation	The DUoS Sub Groups will after consultation approve the Business Rule. They will also determine the date of implementation.
Implemented by DUoS community	The implementation date for the Business Rule signifies its agreement by the industry. The Rule is adopted as of its agreed date.
Rejected	Business Rules that have been raised for discussion by a party but ultimately rejected by the DUoS community.

2. BUSINESS RULES PROCESS

2.1 How to raise a new Business Rule

An individual may raise on behalf of their organisation either an amendment to an existing, or a new Business Rule.

2.2 Agreement process for a new Business Rule

The process for agreement shall be through the DUoS Sub Group. The Sub Group is compiled from 5 members of the Distribution community and 5 members of the Electricity Supply community. Members of the sub group act in consultation with their wider community.

2.3 Implementation of Business Rule

A major consideration will be whether the Business Rule necessitates a change to the flow itself or, solely the rules which will govern the procedures and protocols around the flow.

2.4 Change Control Process

ElectraLink will maintain a register of suggested amendments to the DUoS e-billing file format. At a period, to be decided by the DUoS User group, the suggestions will be discussed and agreed for implementation, or rejected.

This does not include any statutory changes to the flow, such as changes in rates of taxes, levies or duties, or the application of the aforementioned to particular elements of DUoS invoices

2.5 Distribution of Business Rules update

ElectraLink shall act as guardian and co-ordinator of the Business Rules Register.

3. THE BUSINESS RULES

Rule 1: Use of Full or Core MPAN

DUoS No:	1	Status:	Implemented by DUoS Community	Implementation Date:	18/03/2002
Title:		Use of Full or Core Mpan			
Version:		001	Originator:	Supplier Steering Group	
Business Rules type:		S	Originator Ref:		
Date raised:					
Product Area:		DUoS e-billing	Parties Affected:	Suppliers	
Last Amended:					
Change History					

Context:

The DTN enables either 'Mandatory' or 'Optional' fields. The Distribution community currently supplies either full MPAN or the core MPAN number in flows D2021 & D2026.

Business Rule:

It is essential that Distribution companies supply either Full or Core Mpan within the DUoS flow.

Impact of not implementing Business Rule:

It is acknowledged that the MPAN is a business critical field for both sending and validation of DUoS bills. The non-appearance of such information would make validation by Suppliers difficult, if not impossible.

Rule 2: Invoice credits

Rule 2: Invoice Credits					
DUoS No:	2	Status:	Implemented by DUoS Community	Implementation Date:	29/06/2002
Title:		Invoice Credits			
Version:		002	Originator:	Supplier Steering Group	
Business Rules type:		S	Originator Ref:		
Date raised:					
Product Area:		DUoS e-billing	Parties Affected:	Distribution & Supply	
Date last amended		18 May 2010			
Change History:					

Context:

The protocol for sending and interpreting ‘Credits.’

Business Rule:

Credit values will be preceded with a minus (-) figure. This will be for both BCD & CCD levels within the invoice irrespective of Invoice Type.

When shown on an invoice, the breakdown of units and price per unit credited will be:-

(-ve) Units Billed x (+ve) Price Per Unit = (-ve) Total Charge for Charge Type ex VAT

Or

(+ve) Units Billed x (-ve) Price per Unit = (-ve) Total Charge for Charge Type ex VAT

Impact of not implementing Business Rule:

Inability to distinguish a negative or credit invoice from a positive or chargeable invoice. Such credits may appear as a line item or a total value on any Invoice Type.

Rule 3: Distributor Site Reference Number / ID

Rule 3: Distributor Site Reference Number / ID					
DUoS No:	3	Status:	Implemented by DUoS Community	Implementation Date:	18 March 2003
Title:		Distributor Site Reference Number / ID			
Version:		001	Originator:	DUoS Sub group	
Business Rule type:		D	Originator Ref:		
Date raised:					
Product Area:		DUoS e-billing	Parties Affected:	Distribution	
Date last amended					
Change History:					

Context:

Internal Site Reference Number or ID, which may or may not be, used by a Distribution Company currently within DUoS invoices.

Business Rule:

Where a Distribution company quote an internal Site Reference Number or ID, Suppliers must quote this on all Remittance Advices.

Impact of not implementing Business Rule

Ability of Distribution companies to post payments against correct accounts.

Rule 4: Invoices – Part or non payment of invoice

<i>DUoS No.</i>	1	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>		Invoice Protocol & Procedures			
<i>Version:</i>		001	<i>Originator:</i>	Supplier Steering Group (SSG)	
<i>Business Rule type:</i>		S	<i>Originator Ref:</i>		
<i>Date raised:</i>		25/04/032			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	All	
<i>Last Amended:</i>					
<i>Change History</i>					

Rule 5: Invoice Adjustments

<i>DUoS No:</i>	5	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>		Invoice Adjustments			
<i>Version:</i>		001	<i>Originator:</i>	Supplier Steering Group	
<i>Business Rules type:</i>		S	<i>Originator Ref:</i>		
<i>Date raised:</i>		25/04/02			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	All	
<i>Last Amended:</i>					
<i>Change History</i>					

Rule 6: Batching of Files – For transfer across the Data Transfer Service

<i>DUoS No:</i>	6	<i>Status:</i>	Implemented by DUoS Community	<i>Implementation Date:</i>	18 March 2003
<i>Title:</i>		Batching of Files – For Transfer across the Data Transfer Service			
<i>Version:</i>		001	<i>Originator:</i>	ElectraLink	
<i>Business Rules type:</i>		EL	<i>Originator Ref:</i>		
<i>Date raised:</i>					
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	Distributor/Supply/ElectraLink	
<i>Last Amended:</i>		28 th September 2002			
<i>Change History</i>		Rule 2 amended from ‘One DNO billing run to one Supplier’ to ‘Optimal number of large batch files to one Supplier’			

Context:

A Distribution company may be sending hundreds, possibly thousands of DUoS invoices to a Supplier at any one time.

Business Rule:

1. Batch DUoS invoices into one file.
2. Optimal number of large batch files from one DNO one Supplier.

Impact of not implementing Business Rule:

DTS Gateways have been optimised to transmit medium to large messages as it is regarded as good industry practice to batch multiple copies of the same flow into a single message if going to the same destination. Many Users’ internal systems have been designed with this concept in mind. All Gateways can transmit small messages (less than 1Kbyte) and no restriction is placed on them. However large numbers of small messages use a level of Gateway resources disproportionate to their size when compared to a single message with multiple copies of the same flow. Users are advised to design their applications to avoid generating large numbers of small messages.

Rule 7: HH Profile Class & HH / NHH indicator

<i>DUoS No:</i>	7	<i>Status:</i>	Implemented	<i>Implementation Date:</i>	12 May 2002
<i>Title:</i>		HH Profile Class & HH / NHH indicator			
<i>Version:</i>		001	<i>Originator:</i>	DUoS Sub Group	
<i>Business Rules type:</i>		S	<i>Originator Ref:</i>		
<i>Date raised:</i>					
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	Suppliers	
<i>Last Amended:</i>					
<i>Change History</i>					

Context:

Distribution Network Operators (DNO) have been requested and agreed to populate either the “Profile Class” or the HH / NHH indicator data item.

Business Rule:

DNO’s must populate either the Profile Class (00 – 08) or the HH / NHH indicator

H = HH

N = NHH

Impact of not implementing Business Rule:

Supplier validation systems may not be able to distinguish between HH & NHH sites, so being unable to validate invoice.

Rule 8: Dispute level of invoice

<i>DUoS No:</i>	8	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>		Dispute level of invoice			
<i>Version:</i>		001	<i>Originator:</i>	Distribution Steering Group	
<i>Business Rule type:</i>		D	<i>Originator Ref:</i>		
<i>Date raised:</i>		08/03/02			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>		
<i>Last Amended:</i>		29th June 2002			
<i>Change History</i>					

Rule 9: Disaster Recovery (DR)

Rule 9: Disaster Recovery (DR)					
DUoS No:	9	Status:	Implemented	Implementation Date:	29/06/2002
Title:		Paper Invoices			
Version:		001	Originator:	Distribution Steering Group	
Business Rule type:		D	Originator Ref:		
Date raised:		08/03/02			
Product Area:		DUoS e-billing	Parties Affected:	Distributors	
Last Amended:		29 th June 2002 27 th September 2002 29 th January 2008			
Change History		Removed from context 'The likely fallback position is that paper invoices would be sent'			

Context:

As a DR or fallback scenario, Distribution companies may send out DUoS bills by an alternative method.

As a DR or fallback scenario, Supplier companies may send out DUoS remittance files by an alternative method.

Business Rule:

1. Distribution companies to retain the right to send or receive paper invoices and be paid on existing DCUSA terms.
2. Suppliers to send D2026 Remittance File by email as necessary; determined by a Supplier's site (and hence E-Billing Service connections) being subject to a DR scenario.

Impact of not implementing Business Rule:

Distribution companies may be unable to send bills and therefore generate the business cash flows, usually generated by DUoS E-Billing invoices.

Rule 10: Remittance Advice

Rule 10: Remittance Advice					
DUoS No:	10	Status:	Implemented	Implementation Date:	29/06/2002
Title:		Remittance Advice			
Version:		001	Originator:	Distribution Steering Group	
Business Rule type:		D	Originator Ref:		
Date raised:		08/03/02			
Product Area:		DUoS e-billing	Parties Affected:	All	
Last Amended:		29 th June 2002 29 th January 2008			
Change History		Text tidied and status updated to 'Implemented' 29/06/2002			

Context:

Timing of Remittance Advice:-

Best endeavour (not contractual commitment) to submit to DNO as early as possible.

NB Clarification of definition required.

Business Rule:

1. Remittance advice to be sent with best endeavour by Suppliers and received by Distribution Company prior to receipt of payment.
2. Suppliers to inform DNO of any change to Remittance Advice.

Impact of not implementing Business Rule:

Inability to post payments made against outstanding debts

Rule 11: Supplier Specific Requirement

Rule 11 - Supplier Specific Requirements					
DUoS No:	11	Status:	Withdrawn	Implementation Date:	
Title:		Supplier Specific Requirements			
Version:		001	Originator:	Distribution Steering Group	
Business Rule type:		D	Originator Ref:		
Date raised:		08/03/02			
Product Area:		DUoS e-billing	Parties Affected:		
Last Amended:		29 th Jan 2008			
Change History					

Rule 12: Use of System Agreement (UoSA) & Payment Timescale

Rule 12: Use of System Agreement (UoSAs) & Payment Timescale					
DUoS No:	12	Status:	Withdrawn	Implementation Date:	
Title:		Use of System Agreement (UoSAs) & Payment Timescale			
Version:		001	Originator:	DUoS Sub Groups	
Business Rule type:		D	Originator Ref:		
Date raised:		10/06/02			
Product Area:		DUoS e-billing	Parties Affected:	All	
Last Amended:		29 th June 2002 27 th September 2002 29 th Jan 2008			
Change History		Business Rules 2, 3 & 4 removed			

Superseded by DCUSA.

Rule 13: Use of System Agreement (UoSA)

<i>DUoS No:</i>	13	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>		Use of System Agreement (UoSA)			
<i>Version:</i>		001	<i>Originator:</i>	Distribution Steering Group	
<i>Business Rule type:</i>			<i>Originator Ref:</i>		
<i>Date raised:</i>		08/03/02			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>		
<i>Last Amended:</i>		29 th June 2002 29 th Jan 2008			
<i>Change History</i>					

Superseded by DCUSA.

Rule 14: Lead MPAN & Remittance Advice

Rule 14 - Lead MPAN & Remittance Advice					
DUoS No:	14	Status:	Implemented by DUoS Community	Implementation Date:	12 May 2002
Title:		Lead MPAN & Remittance Advice			
Version:		001	Originator:	DUoS Sub Group	
Business Rule type:		D	Originator Ref:		
Date raised:					
Product Area:		DUoS e-billing	Parties Affected:		
Last Amended:					
Change History					

Context:

Protocol for listing MPAN's on the remittance advice.

Business Rule:

MPAN quoted in the remittance advice must match the lead MPAN from the originating invoice

Impact of not implementing Business Rule:

Distribution companies unable to assign payment to relevant / customer.

N.B.

The lead MPAN is defined as the first one supplied in the relevant invoice for the site.

Rule 15: Migration Implementation Plan

<i>DUoS No:</i>	15	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>		Migration implementation plan			
<i>Version:</i>		001	<i>Originator:</i>	Supplier Steering Group	
<i>Business Rule type:</i>		S	<i>Originator Ref:</i>		
<i>Date raised:</i>		25/04/02			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	All	
<i>Last Amended:</i>		29th June 2002 27th September 2002 29th Jan 2008			
<i>Change History</i>		Remove ‘Impact of not implementing Business Rule’ and subsequent text			

Rule 16: Multiple Ownership of Distribution Network Operators (DNO's)

Rule 16: Multiple ownership of Distribution Network Operators (DNO's)					
DUoS No:	16	Status:	Implemented by DUoS Community	Implementation Date:	27-Sep-02
Title:		Multiple ownership of DNO's			
Version:		001	Originator:	Suppliers / ECMS users	
Business Rule type:		S	Originator Ref:		
Date raised:		03/05/02			
Product Area:		DUoS e-billing	Parties Affected:		
Last Amended:		29 th June 2002 27 th September 2002 29 th Jan 2008			
Change History		Status changed from Raised / Under discussion to Implemented by DUoS Community Examples updated 29 th Jan 2008.			

Context:

As the industry consolidates multiple ownership of both DNO's and Suppliers requires clarification with regard to the sending of electronic invoices and remittance advices.

Business Rule:

Where a Distribution company operate multiple LDSO licence areas; each LDSO's invoices must be sent within a separate flow.

Where a group owns more than one Supply company; separate remittance advices must be sent for each Supplier ID.

Examples

CE Electric – 1 invoice batch for NEDL area and, 1 invoice batch for YEDL area.

EDF Energy – Separate remittance advice files for each of the LOND, SEEB and SWEB Supplier IDs.

Impact of not implementing Business Rule:

Supplier validation systems (SONNET in particular) cannot cope with a flow containing invoices from more than one LDSO. There are also legal requirements to keep some companies trading activities separate, despite ownership structure.

Rule 17: Flow Commencement (content)

<i>DUoS No:</i>	17	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>		Flow commencement			
<i>Version:</i>		001	<i>Originator:</i>	Supplier Steering Group	
<i>Business Rule type:</i>		S	<i>Originator Ref:</i>		
<i>Date raised:</i>		25/04/02			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	Suppliers	
<i>Last Amended:</i>		27 th September 2002 29 th Jan 2008			
<i>Change History</i>					

Rule 18: Invoice Period length

<i>DUoS No:</i>	18	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	10/06/02
<i>Title:</i>		Invoice period length			
<i>Version:</i>	001	<i>Originator:</i>	Supplier Steering Group		
<i>Business Rule type:</i>	S	<i>Originator Ref:</i>			
<i>Date raised:</i>	25/04/02				
<i>Product Area:</i>	DUoS e-billing	<i>Parties Affected:</i>	Suppliers		
<i>Last Amended:</i>	29th June 2002 29th Jan 2008				
<i>Change History</i>					

DUG 29/01/2008 - Rule withdrawn as the ECMS system is no longer in operation.

Rule 19: Supplier Gateway Problem / Error

<i>DUoS No:</i>	19	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>	Supplier gateway problem / error				
<i>Version:</i>	001	<i>Originator:</i>	Supplier Steering Group		
<i>Business Rule type:</i>	S	<i>Originator Ref:</i>			
<i>Date raised:</i>	25/04/02				
<i>Product Area:</i>	DUoS e-billing	<i>Parties Affected:</i>	All		

<i>DUoS</i> <i>No:</i>	19	<i>Status:</i>	Withdrawn	<i>Implementation</i> <i>Date:</i>	
<i>Last Amended:</i>		29th June 2002 29th Jan 2008			
<i>Change History</i>					

DUG 29/01/2008 – Rule covered by existing Rule 9.

Rule 20: Flow Hierarchy

<i>DUoS No:</i>	20	<i>Status:</i>	Implemented	<i>Implementation Date:</i>	10/06/2002
<i>Title:</i>		Flow Hierarchy			
<i>Version:</i>		001	<i>Originator:</i>	ElectraLink	
<i>Business Rule type:</i>		E	<i>Originator Ref:</i>		
<i>Date raised:</i>		09/08/02			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	All parties	
<i>Last Amended:</i>		29 th Jan 2008			
<i>Change History</i>					

Context:

In order to facilitate the validation of Multiple Mpan invoices,

Business Rule:

As agreed at the DUoS e-billing Distribution & Supplier Sub-Groups meeting held on Monday, 10th June 2002 at East Midlands Electricity, Pegasus Business Park, Castle Donington:

All 4 of the following 4 example flow structures represent valid coding of a D2021 flow. Distribution and Supply communities have stated a preference for continuing operation of the D2021 flow in accordance with this Rule rather than changing the structure of the D2021 flow baseline Version 4.7.

DUoS Valid Coding			
Structure	Structure	Structure	Structure
1 (single MPAN per site)	2 (multi MPAN per site, bill for multi MPANs)	3 (multi MPAN per site, one bill per MPAN)	4 (single MPAN, multi bills)
CLO	CLO	CLO	CLO
MPC	MPC	MPC	MPC
BCD	MPC	BCD	BCD
CCD*	MPC	CCD*	CCD*
CLO	BCD	MPC	BCD
MPC	CCD	BCD	CCD*
	CLO	CCD*	
	MPC		

The DUoS E-Billing User Group meeting held on the 29th January 2008, reviewed this position and agreed to ratify the Rule and update to 'implemented' status.

Rule 21: Remittance Advice – Net Credit

<i>DUoS No:</i>	20	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>		Remittance Advice – Net Credit			
<i>Version:</i>		001	<i>Originator:</i>	Npower	
<i>Business Rule type:</i>		S	<i>Originator Ref:</i>		
<i>Date raised:</i>		23/08/02			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	All	
<i>Last Amended:</i>					
<i>Change History</i>					

Rule 22: Charge Type

<i>DUoS No:</i>	22	<i>Status:</i>	Withdrawn	<i>Implementation Date:</i>	
<i>Title:</i>		Charge Type			
<i>Version:</i>		001	<i>Originator:</i>	ECMS User community	
<i>Business Rule type:</i>		S	<i>Originator Ref:</i>		
<i>Date raised:</i>		07/11/02			
<i>Product Area:</i>		DUoS e-billing	<i>Parties Affected:</i>	All	
<i>Last Amended:</i>					
<i>Change History</i>					