



EMR
SETTLEMENT
LIMITED

Public

Backing Data Workshop

9 November 2016



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What is backing data?

- In order for you to validate fully our invoices (and the settlement calculations behind them), you will need:
 - Your own data (e.g. your net and gross demand in each half hour)
 - Market data (e.g. total net and gross demand, total payments to CfD generators)
- This is too much information to provide in an invoice or a credit note so we provide this in the form of backing data

Formats for Backing Data

- Data Transfer Service (DTS):
 - Data files will comply with Data Transfer Catalogue (DTC)
 - Pipe-separated records (not easily human-readable)
 - One file per invoice
 - DTC - <http://dtc.mrasco.com/ListDataFlows.aspx>
- Email attachment:
 - CSV format (loadable as table of data in Excel)
 - Normally one file per invoice, but in some cases different payment types in different files
 - .TXT version is a DTC file format – in User File Format

CFD Backing Data - D0362

- Backing data will contain the same data items, regardless of which route is used:

Invoice Item	DTC File	CSV File
Interim Rate Payments Operational cost payments	D0362 file (groups 55I, 56I, 57I)	T001 file
Reserve payments	D0362 file (groups 55I, 58I, 59I)	T002 file (or T003 for additional payments)
Reconciliation payments	D0362 file (groups 55I, 60I-64I)	T004 file
Mutualisation payment	D0362 file (groups 55I, 65I)	T005 file
CFD Supplier Credit Cover Report	D0363 file	T018 file
Default interest	D0362 file (groups 66-67I)	T100

CM: Backing Data - D0364

- Backing data will contain the same data items, regardless of which route is used:

Invoice Item	DTC /TXT File	CSV File
Settlement Cost Levy (Monthly Invoice)	D0364 file (groups 71I-74I)	T045 file
Settlement Cost Levy (Revision Invoice)	D0364 file (groups 71I-74I)	T044 file
Settlement Cost Levy	D0364 file (groups 71I-74I)	T078 file
Supplier Charge	D0364 file (751 group)	T046 file
Default interest	D0364 file (Groups 84-85I)	T101

CSV Format

- T003 CSV file (as it might look if loaded into Excel)

Column headers identify fields from the DTC definition e.g. J1973 is the Obligation Period

Fields from different DTC groups combined into a tabular structure

/BIC/N1_J1950	/BIC/N1_J1973	/BIC/N1_J0073	/BIC/N1_J0146
38121592	201507	20150702	SF
38121592	201507	20150701	SF
38121592	201507	20150630	SF
38121592	201507	20150629	SF
38121592	201507	20150628	SF

...	/BIC/N1_J1904	/BIC/N1_J2023	/BIC/N1_J1905	/BIC/N1_J2026
...	41944.3	622010.199	0	0
...	57569.812	764813.006	0	0
...	20440.69	682467.514	0	0
...	573.52	763206.846	0	0
...	43956.276	601208.923	0	0

... ..

Supplier Charge example

- Monthly Total Capacity Provider payments for October 2014:

£60 million

- Supplier's Net Demand for 2014/15 Delivery Year:

1.8 million MWh

- All Suppliers Net Demand for 2014/15 Delivery Year:

12 million MWh

Calculation:

60 million x (1.8 million ÷
12 million) = **£9 million**

Contact Details in case of queries

Contact partner: EMR Settlement Services Helpdesk
E-Mail: contact@emrsettlement.co.uk
Telephone: 0207 380 4333

INVOICE

Test Supplier
4th Floor
350 Euston Road
London
NW1 3AW
Great Britain

Bill data (please provide during enquiries)

Invoice Number: 905
Invoice Date: 1 October 2014
Due Date: 6 October 2014

Payment Types

Payment Type	VAT Code	Net Amount (£)
Supplier Charge for October 2014	0	£9,000,000.00
Supplier Charge Mutualisation for October 2014	0	£1,000,000.00

VAT Breakdown				Subtotal (£)	£10,000,000.00
Code	Net Total	Tax Rate	Tax Amount	VAT (£)	£0.00
0	£10,000,000	0%	£0.00	Grand Total (£)	£10,000,000.00

The amount due will be collected by Direct Debit on or immediately after the due date stated above.

Bank Name Royal Bank of Scotland Group
Sort Code 60-70-80
Account Number 10018522
Account Name ESC Op Cost Receipt

Electricity Settlements Company Ltd
Fleetbank House, 2-6 Salisbury Square, London EC4Y 8JX
T: +44 (0)20 7211 8881
www.electricitysettlementscompany.uk

Supplier Charge backing data

/BIC/N1_J1889	/BIC/N1_J1950	/BIC/N1_J1949	/BIC/N1_J1951	/BIC/N1_J1952	/BIC/N1_MP ID
TESTSUPP	905	20141001	20141006	10000000	SUPP

All backing data starts with the same 6 columns and contains:

- EMR Party ID
- EMR Invoice Number
- EMR Invoice Issued Date
- EMR Invoice Payment Date
- EMR Invoice Total
- MPID

Delivery Year Month	Total Monthly Capacity Payments	Supplier Net Demand for Periods of High Demand	Net Demand for Periods of High Demand	Reference Period Start Date	Reference Period end Date	Capacity Market Supplier Charge	Net Payment
/BIC/N1_J1923	/BIC/N1_J2029	/BIC/N1_J2009	/BIC/N1_J2031	/BIC/N1_J1993	/BIC/N1_J1992	/BIC/N1_J1901	/BIC/N1_J1972
201410	60000000	1800000	12000000	20141101	20150228	9000000	9000000

60 million x (1.8 million ÷ 12 million) = **£9 million**

Key resource:

<https://dtc.mrasco.com/listdataflows.aspx>



SCL Revision Example



- Backing data will often provide information on metered volumes and payment amounts such as Settlement Costs Levy Revision

Contact Details in case of queries

Contact partner: EMR Settlement Services Helpdesk

E-Mail: contact@emrsettlement.co.uk

Telephone: 0207 380 4333

INVOICE

TESTSUPP1
350 Euston Road
London
NW1 3AW
Great Britain

Bill data (please provide during enquiries)

Invoice Number: 794

Invoice Date: 24 March 2016

Due Date: 31 March 2016

Payment Types

Payment Type	VAT Code	Net Amount (£)
Settlement Cost Levy for Apr 2015	O	£ 380.12
Settlement Cost Levy for May 2015	O	£ 380.12
Settlement Cost Levy for Jun 2015	O	£ 380.12
Settlement Cost Levy for Jul 2015	O	£ 380.12
Settlement Cost Levy for Aug 2015	O	£ 380.12
Settlement Cost Levy for Sep 2015	O	£ 380.12
Settlement Cost Levy for Oct 2015	O	£ 380.12
Settlement Cost Levy for Nov 2015	O	£ 380.12
Settlement Cost Levy for Dec 2015	O	£ 380.12
Settlement Cost Levy for Jan 2016	O	£ 380.12
Settlement Cost Levy for Feb 2016	O	£ 380.12
Settlement Cost Levy for Mar 2016	O	£ 380.12

VAT Breakdown

Code	Net Total	Tax Rate	Tax Amount
O	£ 4,561.44	0%	£ 0.00

Subtotal (£) £ 4,561.44

VAT (£) £ 0.00

Grand Total (£) £ 4,561.44

SCL Revision backing data

These columns provide information on
payment amount

/BIC/N1_J1 923	/BIC/N1_J2 043	/BIC/N1_J1 996	/BIC/N1_J1 999	/BIC/N1_J1 993	/BIC/N1_J1 992	/BIC/N1_J2 015	/BIC/N1_J1 972	/BIC/N1_J0 073	/BIC/N1_J0 146	/BIC/N1_J1 937	/BIC/N1_J1 938	/BIC/N1_J0 074	/BIC/N1_J1 984	/BIC/N1_J1 J1985
201504	3891000	1732174	10706276	20151101	20160229	52460.57	380.12	20151102	20151102	SF	21697.71	133953	33	19.854
201504	3891000	1732174	10706276	20151101	20160229	52460.57	380.12	20151102	20151102	SF	21697.71	133953	34	23.849
201504	3891000	1732174	10706276	20151101	20160229	52460.57	380.12	20151102	20151102	SF	21697.71	133953	35	27.813
201504	3891000	1732174	10706276	20151101	20160229	52460.57	380.12	20151102	20151102	SF	21697.71	133953	36	29.198
201504	3891000	1732174	10706276	20151101	20160229	52460.57	380.12	20151102	20151102	SF	21697.71	133953	37	29.666
201504	3891000	1732174	10706276	20151101	20160229	52460.57	380.12	20141103	20151102	SF	21697.71	133953	38	28.889

These columns provide information on
metered volumes

Key resource:


<https://dte.mrasco.com/listdataflows.aspx>

SCL Revision backing data- payment amounts

CM Month Id	Total SCL Amount	Supplier Net Demand for Periods of High Demand	Total Net Demand for Periods of High Demand	Reference Period Start Date	Reference Period end Date	Supplier SCL Amount	Net Payment
/BIC/N1_J1923	/BIC/N1_J2043	/BIC/N1_J1996	/BIC/N1_J1999	/BIC/N1_J1993	/BIC/N1_J1992	/BIC/N1_J2015	/BIC/N1_J1972
201504	3891000	1732174	10706276	20151101	20160229	52460.57	380.12

- You will have to look at backing data associated with SCL invoices through out the year for what the original amounts were

SCL Revision backing data- metered data



Settlement Date	Settlement Code	Daily Supplier Net Demand for Periods of High Demand	Daily Total Net Demand for Periods of High Demand	Settlement Period ID	Period Supplier Net Demand for Periods of High Demand	Period Total Net Demand for Periods of High Demand
/BIC/N1_J0073	/BIC/N1_J0146	/BIC/N1_J1937	/BIC/N1_J1938	/BIC/N1_J0074	/BIC/N1_J1984	/BIC/N1_J1985
20151102	SF	21697.71	133953	33	19.854	20735.64
20151102	SF	21697.71	133953	34	23.849	22072.04
20151102	SF	21697.71	133953	35	27.813	23091.01
20151102	SF	21697.71	133953	36	29.198	23069.81
20151102	SF	21697.71	133953	37	29.666	22708.46
20151102	SF	21697.71	133953	38	28.889	22276.06

One settlement date

Provides net demand detail for a **settlement date**

Provides net demand detail for a **settlement period**



Operational Cost Payment

- From the backing data and data item list on your table cant you work out what the Operational Cost Payment should be?



LOW CARBON CONTRACTS COMPANY

Contact Details in case of queries

Contact partner: EMR Settlement Services Helpdesk
 E-Mail: contact@emrsettlement.co.uk
 Telephone: 0207 380 4333

TEST INVOICE

EMRS Test Supplier
 350 Euston Road
 London
 NW1 3AW
 United Kingdom

Bill data (please provide during enquiries)

Invoice number: 5026
 Invoice date: 27 August 2015
 Due date: 04 September 2015

Payment Types

Payment Type	Settlement Run Type	Settlement Date	VAT Code	Net Amount (£)
Operational Cost Default Interest for invoice number 4683			0	£4.49
Operational Cost Payment	SF	03 Aug 2015	0	

VAT Breakdown

Code	Net total	Tax Rate	Tax Amount	Subtotal (£)	VAT (£)	Grand total (£)
0		0%	£ 0.00			£ 0.00

TEST INVOICE - DO NOT PAY



Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
55I	EMR Invoice Header	1		G								
					1							EMR Party Id
					1							EMR Invoice Number
					1							EMR Invoice Date
					1							EMR Invoice Payment Date
					1							EMR Invoice Total
56I	CFD Levy Payment	0-*		G								
					1							CFD Levy Payment Type
					1							Settlement Date
					1							Settlement Code
					1							CFD Levy Rate
					1							CFD Daily Supplier Chargeable Demand
					1							CFD Daily Supplier EII Excluded Demand
					1							CFD Levy Payment
					O							CFD Levy Net Payment

Item Reference: J1909

Item Name: **CFD Levy Payment Type**

Item Ownership: MRA

Item Description: A code identifying the type of a CFD Levy Payment

Units: None

Valid Set: Values are:

Value	Description
I	Interim Levy
O	Operational Levy

Validation:

Domain: Identifier

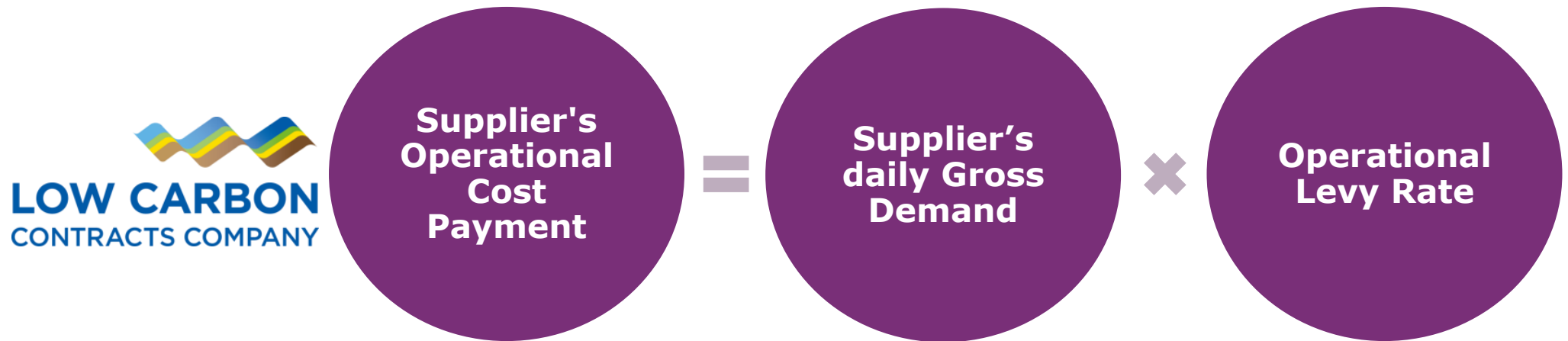
Logical Format: [CHAR(1)]

Physical Length: [1]



CFD: How is the operational cost payment calculated?

- Invoiced daily



Operational Cost Payment backing data

These columns provide information on **metered volumes** so how 128163.951 is made up

Settlement Date	Settlement Run	Settlement Period	CFD Levy Rate	CFD Daily Supplier Chargeable Demand	CFD Daily Supplier EII Excluded Demand	CFD Levy Payment	CFD Levy Net Payment	CFD Period Supplier Chargeable Demand	CFD Period Supplier EII Excluded Demand	
/BIC/N1_J0 073	/BIC/N1_J0 146	/BIC/N1_J0 074	/BIC/N1_J1 910	/BIC/N1_J1 904	/BIC/N1_J1 905	/BIC/N1_J1 908	/BIC/N1_J1 907	/BIC/N1_J19 11	/BIC/N1_J1912	
20150803	SF	1	0.0397	128163.951	1	1851.048	5088.11	5088.11	2032.299	13.7

$$0.0397 \times 128163.951 = \mathbf{\pounds 5,088.11}$$