



MRA Service Company Limited

MRA Data Transfer Catalogue (DTC)

Version 12.4

28 February 2019

This electronic copy of the DTC is provided to enable the user to make copies of this document but only for the purpose of a copy being given to such personnel within the user's company as is necessary for the user's company to operate and supply electricity within Great Britain. It is a condition of this licence that copies of the DTC made in accordance with this licence may not be distributed for any other purpose, and each copy will be destroyed when the person possessing such a copy no longer needs such copy to fulfil the purpose set out above.

The use of this product has been licensed to **Gemserv Limited, 5th Floor, 8 Fenchurch Place, London, EC3M 4AJ.**

©1998 **MRA Service Company Limited, 5th Floor, 8 Fenchurch Place, London, EC3M 4AJ.**

All rights reserved. No part of this publication may be reproduced or transmitted in any material form (including photocopying or storing it in any medium, by electronic means and whether or not transiently or incidentally to some other use or publication) without the permission of MRA Service Company Limited, whose address is set out above.

Document Control

Document Name

Data Transfer Catalogue

Document Reference

DTC\12.4

Approval

Role	Signature	Date
MRA Delivery Manager / Product Release Co-ordinator	Andrew Bard	28 February 2019

Distribution List

Name
OFGEM
MRA Contract Managers
ElectraLink Ltd.
Interested Industry Participants

Document History:

Issue	Date Issued	Reason for Issue
Version 1.0	16 December 1996	For industry use
Version 2.0	30 January 1997	For industry use
Version 3.0	27 March 1997	For industry use
Version 3.1	9 June 1997	For industry use
Version 3.101	10 July 1997	Addendum to Version 3.1. Annexes B, C, D and E supersede Version 3.1
Version 3.102	1 September 1997	Supersedes Version 3.101 as an addendum to Version 3.1
Version 3.103	3 October 1997	Addendum detailing changes to Version 3.102 Annex B
Version 3.2	3 October 1997	Addendum to Version 3.103 to introduce changes to support the Half Hourly Market
Version 4.0	12 December 1997	Issued to support Industry Design Baseline 2.0
Version 4.1	27 March 1998	Superseded Version 4.0
Version 4.2	12 June 1998	Superseded Version 4.1
Version 4.3	30 October 1998	Addendum to Version 4.2. Annexes B, C and E supersede Version 4.2
Version 4.4	4 June 1999	Superseded Version 4.3
Version 5.0	13 August 1999	Superseded Version 4.4
Version 5.1	29 June 2000	Superseded Version 5.0. Incorporating changes for 29 th June 2000 MDNS upgrade.
Version 5.2	28 September 2000	Superseded Version 5.1
Version 6.0	25 th January 2001	Superseded Version 5.2
Version 6.2	10 th May 2001	Superseded Version 6.0
Version 7.0	30 th August 2001	Superseded Version 6.2
Version 7.1	28 th February 2002	Superseded Version 7.0
Version 7.2	29 th August 2002	Superseded Version 7.1
Version 7.3	28 th November 2002	Superseded Version 7.2
Version 7.4	29 th May 2003	Superseded Version 7.3
Version 7.5	28 th August 2003	Superseded Version 7.4
Version 7.6	27 th November 2003	Superseded Version 7.5
Version 7.7	26 th February 2004	Superseded Version 7.6
Version 7.8	24 th June 2004	Superseded Version 7.7
Version 7.9	4 th November 2004	Superseded Version 7.8
Version 8.0	24 th February 2005	Superseded Version 7.9
Version 8.1	30 th June 2005	Superseded Version 8.0
Version 8.2	3 rd November 2005	Superseded Version 8.1

Issue	Date Issued	Reason for Issue
Version 8.3	23 rd February 2006	Superseded Version 8.2
Version 8.4	29 th June 2006	Superseded Version 8.3
Version 8.5	2 nd November 2006	Superseded Version 8.4
Version 8.6	22 nd February 2007	Superseded Version 8.5
Version 8.7	28 th June 2007	Superseded Version 8.6
Version 8.8	1 st November 2007	Superseded Version 8.7
Version 8.9	28 th February 2008	Superseded Version 8.8
Version 9.0	26 th June 2008	Superseded Version 8.9
Version 9.1	6 th November 2008	Superseded Version 9.0
Version 9.2	26 th February 2009	Superseded Version 9.1
Version 9.3	25 th June 2009	Superseded Version 9.2
Version 9.4	5 th November 2009	Superseded Version 9.3
Version 9.5	24 th June 2010	Superseded Version 9.4
Version 9.6	4 th November 2010	Superseded Version 9.5
Version 9.7	24 th February 2011	Superseded Version 9.6
Version 9.8	30 th June 2011	Superseded Version 9.7
Version 9.9	1 st July 2011	Superseded Version 9.8
Version 10.0	3 rd November 2011	Superseded Version 9.9
Version 10.1	23 rd February 2012	Superseded Version 10.0
Version 10.2	28 th June 2012	Superseded Version 10.1
Version 10.3	1 st October 2012	Superseded Version 10.2
Version 10.4	10 December 2012	Superseded Version 10.3
Version 10.5	28 February 2013	Superseded Version 10.4
Version 10.6	22 August 2013	Superseded Version 10.5
Version 10.7	7 November 2013	Superseded Version 10.6
Version 10.8	27 February 2014	Superseded Version 10.7
Version 10.9	1 April 2014	Superseded Version 10.8
Version 11	26 June 2014	Superseded Version 10.9
Version 11.1	6 November 2014	Superseded Version 11
Version 11.2	26 February 2015	Superseded Version 11.1
Version 11.3	25 June 2015	Superseded Version 11.2
Version 11.4	5 November 2015	Superseded Version 11.3
Version 11.5	25 February 2016	Superseded Version 11.4
Version 11.6	30 June 2016	Superseded Version 11.5
Version 11.7	3 November 2016	Superseded Version 11.6
Version 11.8	23 February 2017	Superseded Version 11.7
Version 11.9	29 June 2017	Superseded Version 11.8
Version 12	2 November 2017	Superseded Version 11.9
Version 12.1	22 February 2018	Superseded Version 12
Version 12.2	28 June 2018	Superseded Version 12.1
Version 12.3	1 November 2018	Superseded Version 12.2
Version 12.4	28 February 2019	Superseded Version 12.3
Version ???.?	??	Superseded Version ???.?

Contents

Section	Page Number
1 Purpose and Scope	1
2 Change History	3
Annexes	

- Annex A: Specification and standards
- Annex B: Data flow catalogue
- Annex C: Rules for the completion of Data Flows
- Annex D: Data item catalogue
- Annex E: Domains
- Annex F: Cross reference of data flows to source/recipient

1 Purpose and Scope

1.1 Purpose of this document

1.1.1 The Data Transfer Catalogue (DTC) provides:

- a) a logical definition of the data flows used to communicate information between industry participants to support competitive trading; and
- b) a logical definition of the data items within each flow.

1.1.2 **Version 12.4 of the DTC supersedes all previous versions.** Section 2 contains a summary of changes implemented since the previous version of the catalogue.

1.2 Scope of the Data Transfer Catalogue

1.2.1 Those flows that have a defined structure, which are utilised by many participants in the industry and primarily support Stage 2 inter-operation are defined in the DTC.

1.2.2 The presence of a data flow definition in the DTC does not in itself mandate that the method of transmission of that data flow should be via the Managed Data Network System (MDNS). Other methods of transmission for example, CD, Fax or Email could be used. However, the method of transmission may be mandated by a Core Industry Document.

1.2.3 Where the MDNS is used as the method of transmission the structure of the data flow must conform to the logical definition contained in the DTC. Where an alternative method of transmission is used the structure of the data flow may also be different. Any alternative structure must be agreed between sender and recipient, otherwise the logical definition contained in the DTC must be used.

1.2.4 The DTC excludes:

- a) customer facing flows;
- b) generator facing flows (although generator flows in Scotland are included);
- c) flows within a trading participant, e.g. MPAS to distributor flows (assumed to be internal to each Distribution business);
- d) flows which are covered by other networks;
- e) contract negotiation and invoicing flows; and
- f) unstructured flows.

1.2.5 The business triggers and associated timings for flows are outside the scope of the DTC.

1.2.6 The DTC is a schedule of the Master Registration Agreement dated 1 June 1998 (MRA) as amended from time to time. The DTC is maintained in accordance with the provisions of Clause 9 the MRA.

Future releases

- 1.3.1 Future releases of the DTC will be scheduled to encapsulate changes agreed through the industry change process – The Change Management Procedure for MRASCo Products (MAP17). Releases of approved changes to the DTC will be co-ordinated with changes to other MRASCo Products, and are issued in accordance with the release strategy agreed by MDB.

1.4 Structure of document

- 1.4.1 The remainder of this document is structured as follows:
- a) **Section 2: Change History:** describes the changes that have been made to this version of the DTC;
 - b) **Annex A** describes the specification and notation used to describe data flows and data items;
 - c) **Annex B** contains the data flow catalogue;
 - d) **Annex C** contains rules for the completion of Data Flows referenced in Annex B;
 - e) **Annex D** contains the data item catalogue, holding definitions for all data items referenced in Annex B;
 - f) **Annex E** lists the domain definitions for the data items listed in Annex D; and
 - g) **Annex F** provided a cross-reference of data flows to source/recipient.

2 Change History

Details of changes incorporated in this version are provided in the summary below and in the version history at individual flow, data item and domain level. For details on the related Change Proposals please refer to the appropriate Change Proposal form or contact the MRA Helpdesk on 020 7090 1029 or email: helpdesk@gemserv.com

Summary of Changes between v12.3 and v12.4

Ref	CP No.	Brief description of the change and its reason
Annex C	3542	Move notes to Annex C for D0369, D0370, D0371, D0372, D0373, D0374, D0375, D0376 and D0377
Annex C	3546	Additional notes for D0151, D0153 and D0155
Annex B	3529	D0311 - New Data Item Added J2239
Annex B	3540	D0168 - Remove Supplier to Distributor instance
Annex B	3541	D0354 - Flow name, and 14I Group Description changed to replace "EMR" by "Metering System". Flow Description amended to say that either the Supplier or the SVAA may send the Data Flow.,D0385 - Data Flow created.,D0356 - Flow name, J1871 Item Name and 18I Group Description changed to replace "EMR" by "Metering System. Flow Description amended to say that either the Supplier or the SVAA may be a recipient of the Data Flow. Notes changed to clarify that the Data Flow should be sent in response to a D0354 and that the Data Flow should only be sent to the sender of the D0354.,D0355 - Flow name, and 16I Group Description changed to replace "EMR" by "Metering System. Flow Description amended to say that either the Supplier or the SVAA may be a recipient of the Data Flow. Notes changed to clarify how the Data Flow should be sent in response to a D0354.
Annex B	3542	D0369 - Flow rules moved from Flow Notes to DTC Annex C.,D0370 - Flow rules moved from Flow Notes to DTC Annex C.,D0371 - Flow rules moved from Flow Notes to DTC Annex C.,D0372 - Flow rules moved from Flow Notes to DTC Annex C.,D0373 - Flow rules moved from Flow Notes to DTC Annex C.,D0374 - Flow rules moved from Flow Notes to DTC Annex C.,D0376 - Flow rules moved from Flow Notes to DTC Annex C.,D0377 - Flow rules moved from Flow Notes to DTC Annex C.,D0375 - Flow rules moved from Flow Notes to DTC Annex C.
Version 12.4	Page A-8	28 February 2010
Annex B	3546	D0151 - Notes added to Annex C,D0153 - Notes added to Annex C,D0155 - Notes added to Annex C

Annex A: Specifications and Standards

Introduction

A1 This section describes the specification and standards used to define data flows and data items. It is structured as follows:

- a) overview of specification;
- b) logical data model;
- c) entity definitions;
- d) domain picture definitions; and
- e) data flow structure notation;

Overview of specification

A2 This version of DTC includes both:

- a) a data flow catalogue, consisting of data flows; and
- b) a data item catalogue, consisting of data items and domains.

Logical Data Model

A3 The entities used to describe flows and data items, and their relationships are shown in Figure 1. The definition and attributes of each are described in detail below.

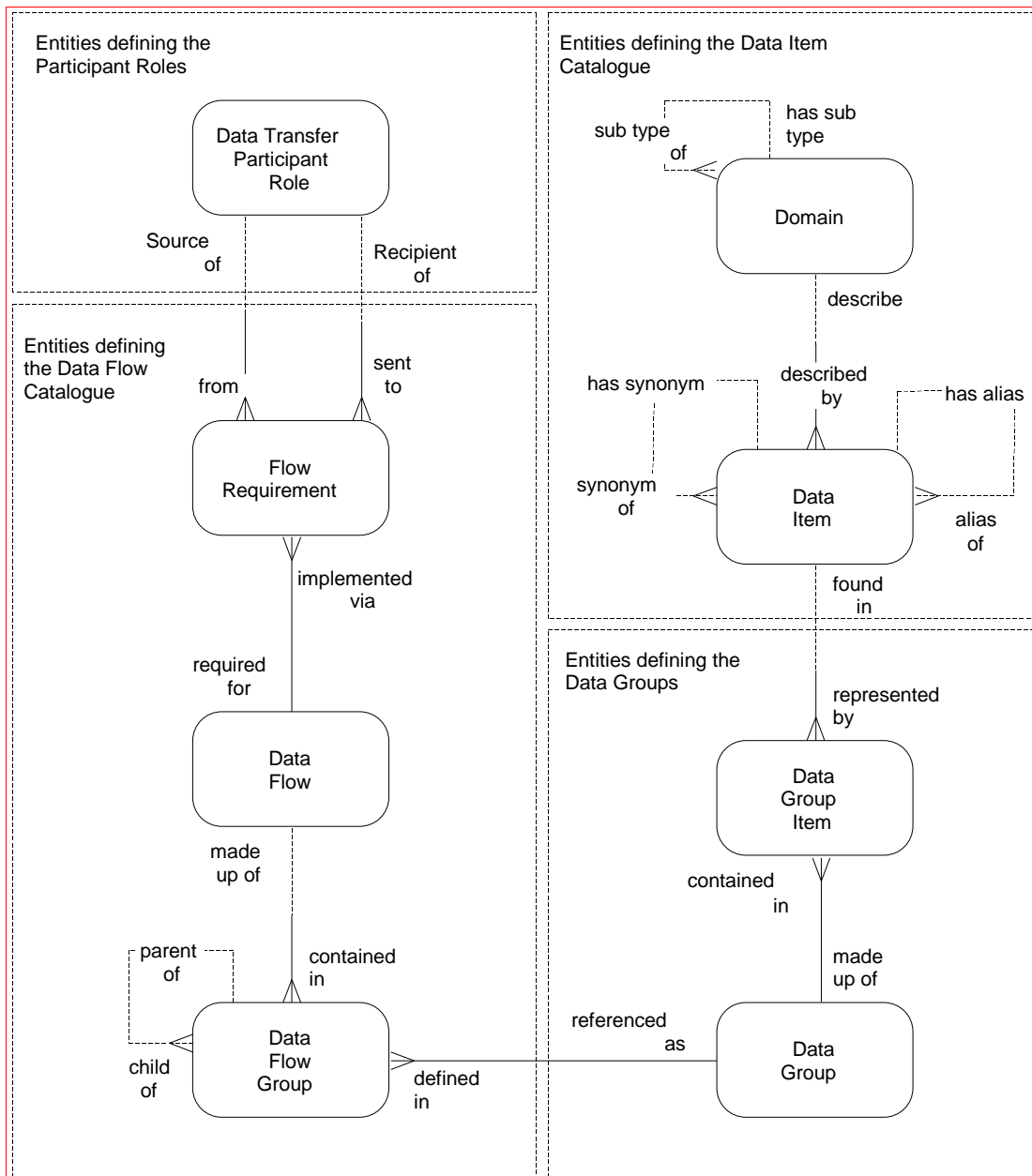


Figure 1: Logical Data Model

Entity definitions

Data Flow

- A4 This entity provides a description of a data flow between parties. A data flow is a logical flow of information between trading parties and is defined in terms of its constituent data items. The definition of the data will include its name, description and other details.
- A5 The flow will be further defined through the details held in other entities such as:
- who will be the source and recipient of the flow;
 - what the data flow contains in terms of data items and data flow groups; and
 - how those items and groups are structured within the data flow.
- A6 Note that header information is not provided within the data flow definition.

Attribute	Description	Valid Set
Flow Reference	Unique reference for the data flow (e.g. D0012)	
Flow Version Number	The current version number for the data flow	
Flow Version Description	The current usage of the data flow	Operational or Test
Flow Name	The unique name for the data flow	
Flow Description	The description of the data flow	
Flow Ownership	Specifies the ownership of the data flow	BSC: The BSC has ownership of the definition of the data flow. MRA: The MRA currently has ownership of the data flow.
Notes	Lists any assumptions that have been made in the definition of the data flow	

Data Flow Group

- A7 This entity describes an instance of the use of a specific data group within a specific data flow. A flow may be constructed from many data groups. Note that currently a group is used *once and only once* in all MRA owned flows. The attributes defining a data flow group are as follows:

Attribute	Description	Valid Set
Flow Reference	Unique reference for a data flow (e.g. D0012).	Exists in 'Data Flow'
Flow Version Number	Current version of the data flow.	Exists in 'Data Flow'
Data Group Reference	3 character reference for a data group (e.g. '032').	Exists in 'Data Group'
Data Group Range	This specifies the number of times that this group <i>instance</i> can be repeated within a parent group in a flow. See below for a description of the notation used.	A range of integers (where * represents an unspecified number greater than 0), such as '0,1', '46,48,50' and '1-*'
Data Group Condition	This specifies the condition on which the group <i>instance</i> will be sent and thus received.	Must be a valid condition that can either be TRUE or FALSE.
Data Group Parent	This specifies the parent group instance (the group in the level above found above the current group within the flow structure). For example the instance of group '002' in flow D0001 has group '001' as its parent.	Must be a group instance existing within this particular data flow.

For instances where Flow Version Numbering is used, modifications to data groups across different versions of the same flow will require a new group to be created within the latest version of the flow.

For BSC owned data flows, modifications to data groups across different BSC data flows may also require a new data group to be created. This is regardless if Flow Version Numbering is used or not.

For all data flows where Flow Version Numbering is used, modifications to data items across different versions of the same flow may require a new data item to be created and used within the latest version of the data flow.

Data Group

- A8 This entity describes the data groups:

Attribute	Description	Valid Set
Data Group Reference	Reference for a data group (e.g. '032').	
Data Group Description	A description of the data group.	

Data Group Item

- A9 This entity describes the data items that are found within each group. Note that each group must contain at least one data item:

Attribute	Description	Valid Set
Data Group Reference	Reference for a data group (e.g. '032').	Exists in 'Data Group'

Data Item Reference	Unique reference for a data item (e.g. J0012).	Exists in 'Data Item'
Data Item Optionality	This specifies whether the instance of this data item in this group is optional, mandatory, or 'null'.	Optional Mandatory Null

Data Item

A10 A data item is the lowest level of data specification used in the definition of a flow (e.g. 'Acknowledge Message Type').

Attribute	Description	Valid Set
Data item reference	Unique reference for the data item (e.g. J0012).	
Data item name	Unique name for the data item.	
Description	The description of the data item.	
Units	The unit of measurement of the data item.	
Valid Set	The set of valid values for the data item.	Range Specific values (codes) Character map
Validation	The validation which is applied to the data item.	
Domain	The domain that the data item belongs to. The data item may inherit attribute defaults from this domain.	Exists in 'Domain' (see table below)
Logical format	The format of the data item. For formats INT(<i>n</i>) and NUM (<i>n,m</i>): 'n' specifies the total number of digits. 'm' specifies the number of digits after the decimal point. Note that signed numbers are represented by an initial '±'. For example the logical format of a real number that can take values between -99.99 and +99.99 (i.e. has 2 decimal places) is ± NUM (4,2).	BOOLEAN CHAR (<i>n</i>) DATE DATETIME INT (<i>n</i>) ±INT (<i>n</i>) NUM (<i>n,m</i>) ±NUM(<i>n,m</i>) TIME TIMESTAMP
Physical length*	The length of the data item (<i>including the space for a decimal place or negative sign if required</i>) For example, the number specified above (-99.99) will have a physical length of 6.	
Has Synonyms	List of data items that are exactly the same as this data item. N.B. Only this (the master) data item will be defined in full.	
Has Aliases	List of data items that have the same attributes as this data item but have a different description and thus a different usage to this master data item (such as Scottish equivalents). The aliases listed will be found in flows.	
Item Ownership	Specifies the ownership of the data item.	BSC: The BSC has ownership of the definition of the data item. MRA: The MRA has ownership of the data item.
Notes	Lists assumptions that have been made in the definition of the data item and any other details.	

*The rules to calculate the physical length from the logical format are defined in detail in Section 6 of the User File Design Specification. They are summarised here for convenience (note that 'm' and 'n' are integers greater than 0):

Logical Format	Physical length
BOOLEAN	1
DATE	8
DATETIME	14

TIME	6
TIMESTAMP	21
CHAR(<i>n</i>)	<i>n</i>
INT(<i>n</i>)	<i>n</i>
± INT(<i>n</i>)	<i>n</i> +1
NUM(<i>n,m</i>) where <i>n</i> > <i>m</i>	<i>n</i> +1
± NUM(<i>n,m</i>) where <i>n</i> > <i>m</i>	<i>n</i> +2
NUM(<i>n,n</i>)	<i>n</i> +2 (to allow for the 0 before the decimal point)
±NUM(<i>n,n</i>)	<i>n</i> +3 (to allow for the 0 before the decimal point)

Data Transfer Participant Role

A11 This entity describes the types of party within the electricity industry who may be responsible as the source or recipient of an information flow. At the time of printing, common industry definitions of the data transfer participant roles have been determined.

Attribute	Description
Market Participant role code	An indicator used to identify the role of the market participant.
Market Participant role name	The name of the market participant role.
Market participant role description	The description of the market participant role.

Market Participant Role Name	Market Participant role Description
Capacity Provider	Capacity Market (CM) Capacity Provider
CFD Generator	Contract for Difference (CFD) Generator
CFD Settlement Services Provider	Contracts for Difference (CfD) Settlement Services Provider
CM Settlement Services Provider	Capacity Market Settlement Services Provider
DCC	Data Communications Company
Distributor	Distribution Business (BSC Terminology = Distribution System Operator)
ECOES	Electricity Central Online Enquiry Service
GD Licensee	Green Deal Licensee
GD Provider	The Green Deal Provider, or the nominated Green Deal Arrangements Agreement party processing data on their behalf under that Agreement
GD Remittance Processor	The organisation which processes data relating to Green Deal monies remitted from or reclaimed by the Green Deal Licensee in relation to Green Deal charges
GDCC	Green Deal Central Charge Database
Grid Operator	Grid Operator
GRS Operator	Generation Registration Service Operator
HHDA	Half Hourly Data Aggregator
HHDC	Half Hourly Data Collector
<u>MA</u>	<u>Meter Administrator</u>
MAP	Meter Asset Provider
MDDA	Market Domain Data Agent
MOP	Meter Operator
MPAS	Metering Point Administration Service
MPAS Agent	Metering Point Administration Service Agent (BSC Terminology = Supplier Meter Registration Agent - SMRA)
NHHDA	Non Half Hourly Data Aggregator
NHHDC	Non Half Hourly Data Collector
NHHDR	Non Half Hourly Data Retriever
PPMIP	Prepayment Meter Infrastructure Provider
Profile Administrator	Profile Administrator
RPS	Revenue Protection Service
SFIC	System Fault Information Centre
Supplier	Supply Business
SVAA	Supplier Volume Allocation Agent
Teleswitch Agent	Teleswitch Agent
UMSO	Unmetered Supplies Operator

Domain

A12 This entity describes a set of attribute values, which may be taken by a data item. A domain is a classification that can be applied to data items that share common attributes (e.g. 'Date', 'Integer' and 'Time' are domains).

Attribute	Description	Valid Set
Domain name	Unique name for the domain	
Domain description	The description of the domain	
Units	The unit of measurement of the domain	
Valid Set	The set of valid values for the domain	
Validation	The validation which is applied to the domain	As Valid Set As format As picture
Sub type of	Cross reference to a domain for which this domain is a subset	Domain name
Picture	The character map that the domain takes	See Domain Picture Definitions below
Logical format	The character of the domain (please refer to this definition in A10 above for further details).	BOOLEAN CHAR(<i>n</i>) DATE DATETIME INT(<i>n</i>) ± INT(<i>n</i>) NUM(<i>n,m</i>) ± NUM(<i>n,m</i>) TIME TIMESTAMP
Physical length	The <i>physical</i> length of the domain (please refer to this definition in A10 above for further details).	
Notes	Lists the assumptions that have been made in the definition of the domain or any other details.	

Flow Requirement

This entity holds the source and destination of a data flow.

Attribute	Description	Valid Set
Flow Reference	Unique reference number for the flow	
Flow Version Number	The current version number for the data flow	
From	The data transfer participant role responsible for sending the data	Exists in Data Transfer Participant Role
To	The data transfer participant role that receives the data	Exists in Data Transfer Participant Role

Domain picture definitions

Abbreviation	Description
A	Alphanumeric character
B	Boolean
Cc	Century
Dd	Day
Ddd	Julian Day
Hh	Hours
Mm	Minutes
Mm Mmm	Month
Yy	Year
N	Numeric digit
Ss ss.ss...	Seconds
X	Any character
D	Delimiter
<Space>	Space
.	Decimal Point
+	Signed

Refer to Annex B of the User File Design Specification for examples of domain picture definitions.

Data flow structure notation

A13 Each data flow is described using a Data Structure Definition (DSD). The DSD shows how the data items within the flow are organised. The flow structure is comprised of a number of groups each of which comprises one or more data items. The flow structure will also identify, for example how often that group can be repeated within the parent group (see A17 below), in what conditions a group is not to be included in the flow and whether any items are mandatory or optional.

A14 The data structure definition comprises:

- a) group Id and description;
- b) group range;
- c) group condition;
- d) levels; and
- e) data items.

A15 The level column is further broken down into levels 1 to 8.

A16 The following sections describe how to use the five sections of each DSD table.

DSD Level

Levels 1 to 8

A17 The levels within this section show the hierarchy of the components of the structure. The contents of any level belong to the immediately preceding group with a higher level (the **parent group**). The level numbering only denotes hierarchy, where 1 is high and 8 is low.

Symbols used

A18 Various symbols are used to add additional meaning to the structure. The following table shows the symbols in use.

Symbol	Meaning
G	Specifies that the object is a group.
1	The data item is mandatory.
O	The data item can be optional (see A21 below).
N	The data item must be null: The value of the data item should not be sent.

Group Id and Description

A19 These two columns specify the Id and the description of the group. Note that generally for MRA owned flows a group is used once and only once in all flows, in BSC owned flows a group may be used in many flows (hence the logical data model described above).

Group Range

A20 This specifies the number of times the group *instance* can be repeated within a parent group *instance*. Some typical values are specified in the table below, where ‘*’ represents any positive integer greater than zero.

Range	Meaning
0,1	The group is optional (see A21 below) but cannot be repeated with the parent group.
0.1	The group is optional (see A21 below) but cannot be repeated with the parent group.
0-*	The group is optional and can be repeated any number of times within the parent group.
1-*	The group is mandatory and can be repeated any number of times within the parent group.
1	The group must be included once within the parent group.
10	The group must be repeated 10 times within the parent group.
48	The group must be repeated 48 times within the parent group.
46, 48, 50	The group must be repeated either 46, 48 or 50 times within the parent group.

Group and Item Optionality

A21 Participants are advised to populate ALL data items and groups where the data is available and the business reason for sending the flow indicates that the data is relevant to the recipient if it is provided.

Group Condition

A22 If the condition for the group *instance* is specified, the group should *not* be sent if the condition is *false*. Note that if the condition is true, the group might not be sent if its range implies it is optional (see above). The data item that determines the condition should be found in a group of which the conditional group is a descendant, or should be a value known to the recipient.

Data Item Section of the DTC

A23 This section of the catalogue identifies the data items used to hold the detail of the flows. It is limited to only those data items listed in the data items section of the data flows, synonyms, and those items in the flow header.

A24 In this catalogue, a Data Item **synonym** is an item that differs from its parent (the item it is a synonym of) *only in name*. Any data items that are similar in form but different in description (such as From and To Market Participant Ids) are known as **aliases**.

A25 The use of the underscore character ‘_’ is limited to:

Data Item Ref.	Data Item Name
J0010	Meter Register Id
J0066	GSP Group Id
J0385	Communications Address
J0428	Outstation Id
J0776	Line Loss Factor Class Description
J1628	BM Unit Id
J2060	Contact Email
J2211	Requestor Contact Email

A26 The use of the character ‘@’ is limited to:

Data Item Ref.	Data Item Name
J2060	Contact Email
J1844	Customer Preferred Contact Details
J2211	Requestor Contact Email