



Non Half Hourly Data Aggregation (NHHDA) Logical Data Design

Version Number 13.~~210~~

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1 Introduction

1.1 Purpose

This document [NLDATA] contains the Logical Data Model, which provides a detailed logical description of the data and its structure, and the Data Catalogue, which describes the data items, for the NHHDA system.

The content is produced in accordance with the Logical Design Process Description [LDESPD]. It is derived from the requirements described in the NHHDA User Requirements Specification [NHHDAURS] and where appropriate, from the data interfaces described in [DIS].

1.2 Scope

This document is one of the Logical Design stage deliverables and will be used as the basis for Physical Design of the NHHDA system.

It should be read in conjunction with the following Logical Design documents:

- NHHDA Function Definition and User Catalogue [NFUNDEF], containing:
 - User Catalogue;
 - Function Definitions;
 - Common Processes (common within NHHDA);
- NHHDA Conceptual Process Model [NCONMOD] which describes all the events and the more complex enquiries.

1.3 Structure of Document

This remainder of this document consists of the following sections:

- Section 2 contains the Logical Data Structure, a diagrammatic representation of the entities and the relationships between them;
- Section 3 contains the Entity Descriptions which document details of each entity;
- Section 4 contains the Data Catalogue which is the central repository for descriptive information about items of data;
- Appendix A describes the conventions in formatting this document.

1.4 Amendment History

Version	Details
0.900	Issued for internal review
0.910	Issued to Pool for review in incomplete form
0.990	Issued to Pool for review, including LCR013 and Logica OR 73 (new attributes in Settlement).
0.991	Addresses Pool comments dated 15 th November and 20 th November 1996. Addresses comments raised from internal consistency review. Includes Logica OR 127 (use DATETIME instead of TIMESTAMP). Issued for internal review.
0.992	Issued to Pool for Acceptance Review.

Version	Details
0.993	Addresses Pool Acceptance Review comments dated 3 January 1997, Pool reference 051SCL.
0.994	Addresses additional Pool Design Review comments raised on V0.993, Logica reference EPL/LOG/179.
0.995	Further changes to address Pool Design Review comments raised on V0.993, Logica reference EPL/LOG/179
1.000	Definitive release.
1.100	Incorporates LCR030. Issued for internal review.
1.990	Issued to Pool for Acceptance Review.
2.000	Addresses Pool APP comments dated 2/4/97. Definitive release.
2.100	CLAR 064 LCR 55
3.000	Address review comments Issued to be consistent with software release R1.1
3.100	Defect 818 (OR 2226) CLAR 113 LCR080 Change Settlement Code from 'D_' to 'DR' OR2444 (LCR092, CR487) change average EAC to default EAC in documentation only
3.500	Address internal review comments Check & correct spelling
4.000	updated with Pool review comments consistent with release R1.3 Authorised Version
4.990	OR2837 NHHDA Release 4.0.0 changes: SIR R419 / LCR021/3 – Consistency of Supplier Reporting Requirements from Data Aggregation SIR R576 / LCR106 – ISR Agent Calendar/Timetable SIR R654 / LCR114 – NHHDA Document/Software Inconsistency NHHDA Release 5.0.0 changes (including LCR148): SIR R529 / LCR094/3 – Exception handling for Full PRS Refresh SIR R709 / LCR103/2 – Metering System Data in PRS and NHHDC SIR R391 / LCR105 – Operational Improvements to NHHDA SIR R692 / LCR107 – Data Aggregation – Zero AA while de-energised SIR R715 / LCR109 – Automatic Loading of MDD SIR R716 / LCR110 – VSCPCs in GSP Groups SIR R575 / LCR112 – Instruction Processing – Apply Logic SIR R991 / LCR116 – NHHDA Aggregation

Version	Details
	Robustness SIR R295 / LCR124/2 – Predictable Outputs from NHHDA SIR R1528 / LCR127/2 – NHHDA Manage Failed Instructions Operability SIR R716 / LCR146 – Amend Instruction Failure Reason Code SIR R991 / LCR148 – Amend A12 Aggregation Exception Code Released to Pool for review.
4.991	Incorporating Pool review comments. Released to Pool for review
4.999	Incorporating Pool review comments. Issued to Pool for review
4.999a	Incorporating Pool review comments Incorporating changes for Pool reference: 329SCL01
5.000	Authorised version. URS Baseline updated in line with CCN095.
5.990	Issued to Pool for review.
6.000	Authorised version
6.001	– OR3086 Incorporate description of existing data item.
6.002	Incorporating Pool review comments
6.003	Incorporating Pool review comments:- OR3118 – Updating the copyright notice
6.004	Change to Office 2000
6.005	Changes relating to ELEXON superseding The Electricity Pool
7.000	Made definitive
7.001	Updated document references
7.990	Version for ELEXON review
7.991	Incorporating ELEXON review comments
8.000	Authorised version
8.001	Update document template
8.002	Changes for P62
8.003	Changes for LCR207
8.004	Updated with comments from internal review
8.005	Changes for LCR207/2
8.990	Version for ELEXON review
8.991	Updated from ELEXON review
9.000	Authorised Version
10.000	Updating document references
10.001	Updated for changes CP1001
10.002	Updates with comments from ELEXON review

Version	Details
10.003	Additional revisions and issued to ELEXON for further review.
10.004	Revisions post review workshop on 13 Oct. Issued to ELEXON for review.
10.005	Further updates based upon feedback from ELEXON. Issued to ELEXON for review.
10.006	Additional updates based upon feedback from ELEXON. Issued to ELEXON for review.
10.007	Additional entity to store numbers of refresh instructions resent
10.008	Additional updates based upon feedback from ELEXON. Issued to ELEXON for review.
11.000	Authorised version.
11.010	Updated document classification
11.0	Back issued for exit management
11.1	November 11 Release: P253
11.2	P253 : Updated with Elexon Review comments
11.5	Updated review comments for November 11 Release: P253
12.0	P253: Final version
12.1	P305 – Updated for November 15 Release
13.0	Clean version - Nov 2015 Release
13.1	CP1434 – Updated for June 2016 Release
13.2	CP1434 – Updated with ELEXON review comments

1.5 Summary of Changes

Changes as indicated in the amendment history.

1.6 Changes Forecast

Agreed Change Requests will be incorporated.

1.7 References

Mnemonic	Information	Details
[DIS]	Title : Author:	SVA Data Catalogue Volume 1: Data interfaces ELEXON
[LDESPD]	Title: Author:	Logical Design Process Description Cognizant Technology Solutions Ltd
[NCONMOD]	Title: Author:	NHHDA Conceptual Process Model Cognizant Technology Solutions Ltd
[NFUNDEF]	Title: Author:	NHHDA Function Definition and User Catalogue Cognizant Technology Solutions Ltd
[NHHDAURS]	Title: Author:	NHHDA User Requirements Specification ELEXON

Mnemonic	Information	Details
[NLDATA]	Title: Author:	NHHDA Logical Data Design Cognizant Technology Solutions Ltd

1.8 Abbreviations

AA	Annualised Advance
DC	Data Collector
EAC	Estimate of Annual Consumption
ISRA	Initial Settlement and Reconciliation Agency (now called SVAA ¹)
NETA	New Electricity Trading Arrangements
NHHDA	Non Half Hourly Data Aggregator
PRS	PES Registration Service (now called SMRA ²)
SMRA	Supplier Meter Registration Agent
SPM	Supplier Purchase Matrix
SVAA	Supplier Volume Allocation Agent
URS	User Requirement Specification, e.g.: [NHHDAURS]

¹ It should be noted that after NETA (New Electricity Trading Arrangements), ISRA is known as SVAA. The NHHDA application and documentation has not been updated for this new terminology.

² It should be noted that the PES was also known as the MPAS (Metering Point Administration Service). The BSC Terminology for the MPAS Agent is the SMRA (Supplier Meter Registration Agent). The NHHDA application and documentation has not been updated for this new terminology.

1.9 Intellectual Property Rights and Copyright

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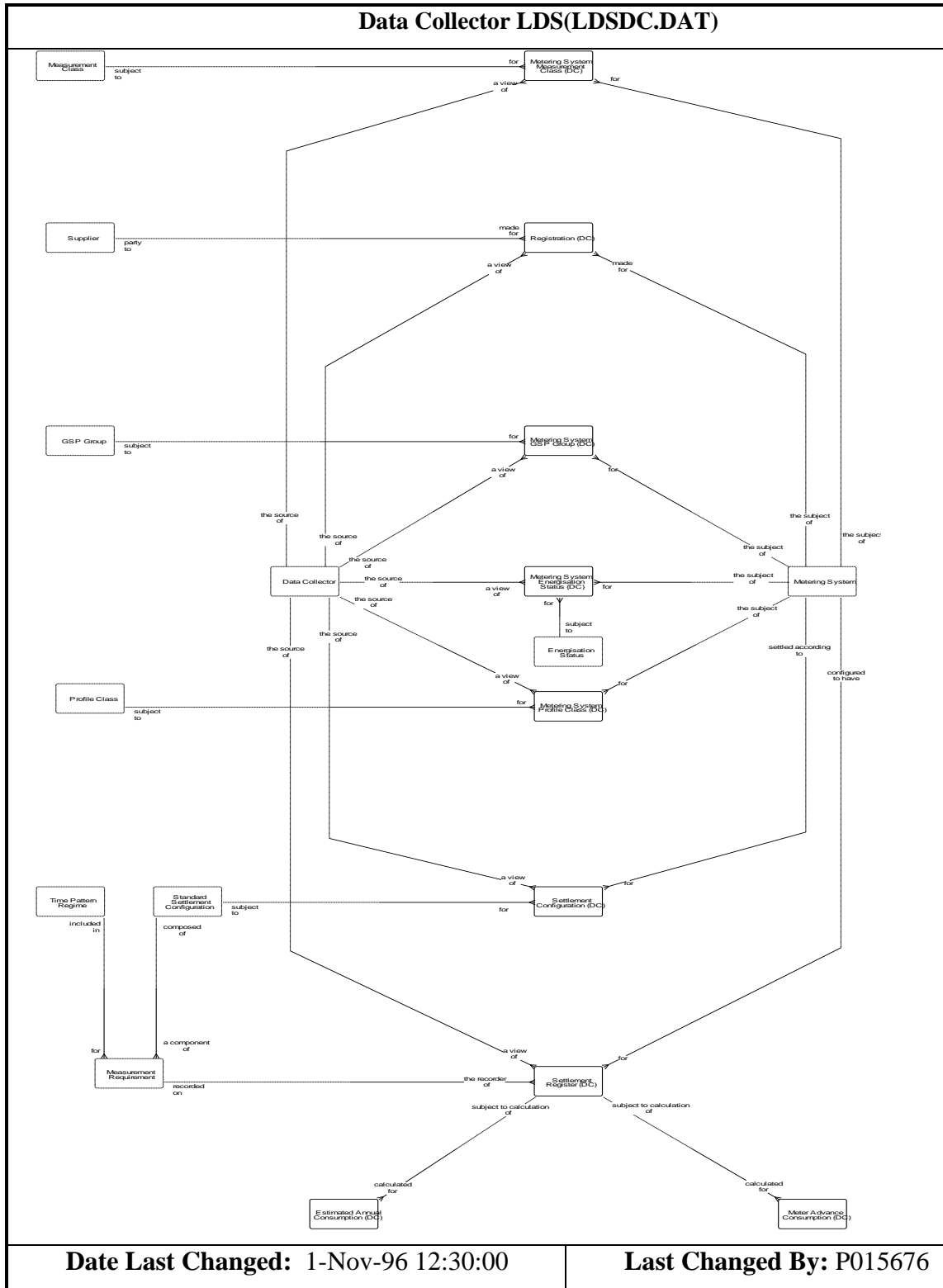


Figure 2 - Data Collector LDS (LDS)

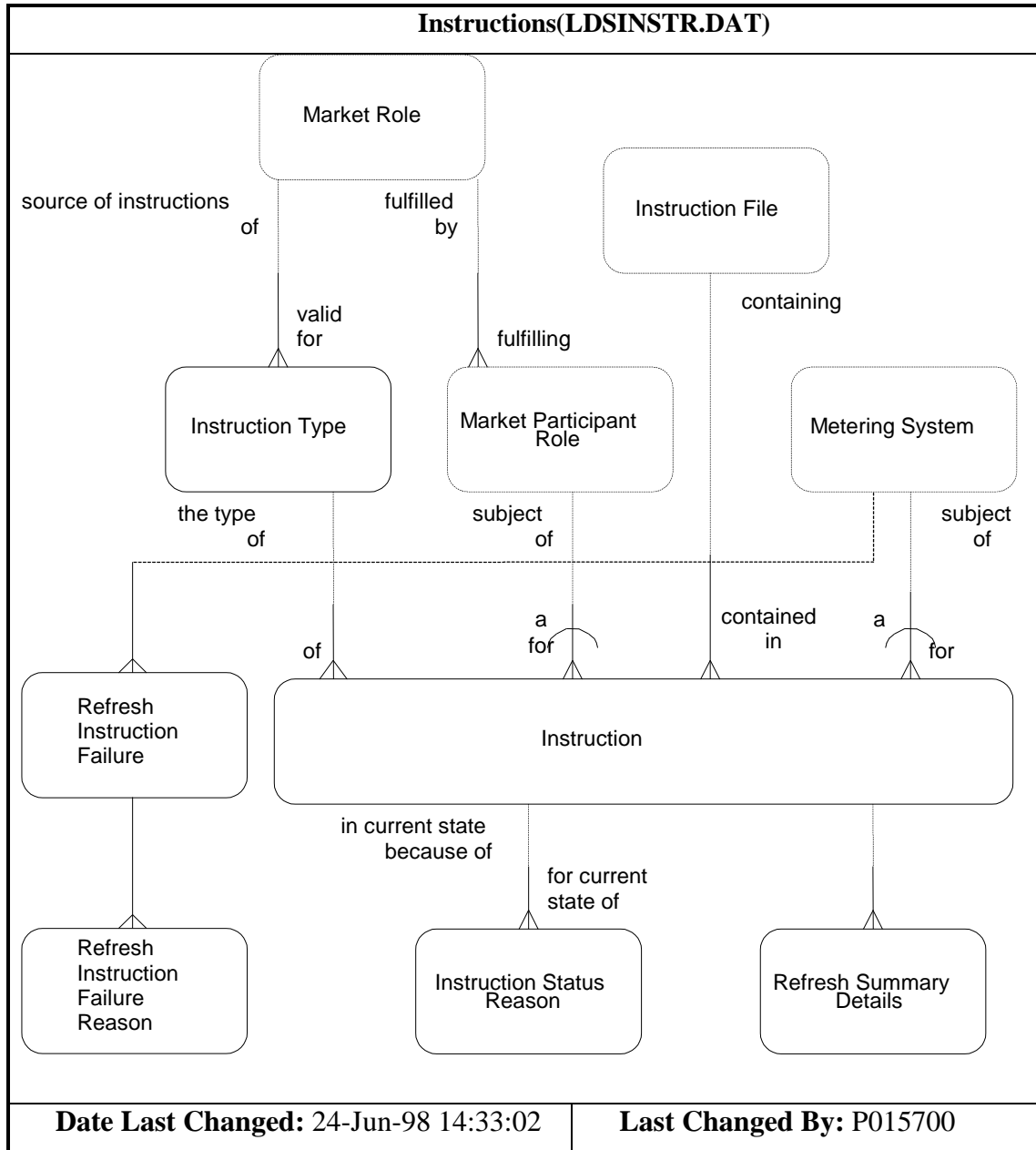


Figure 3 - Instructions (LDS)

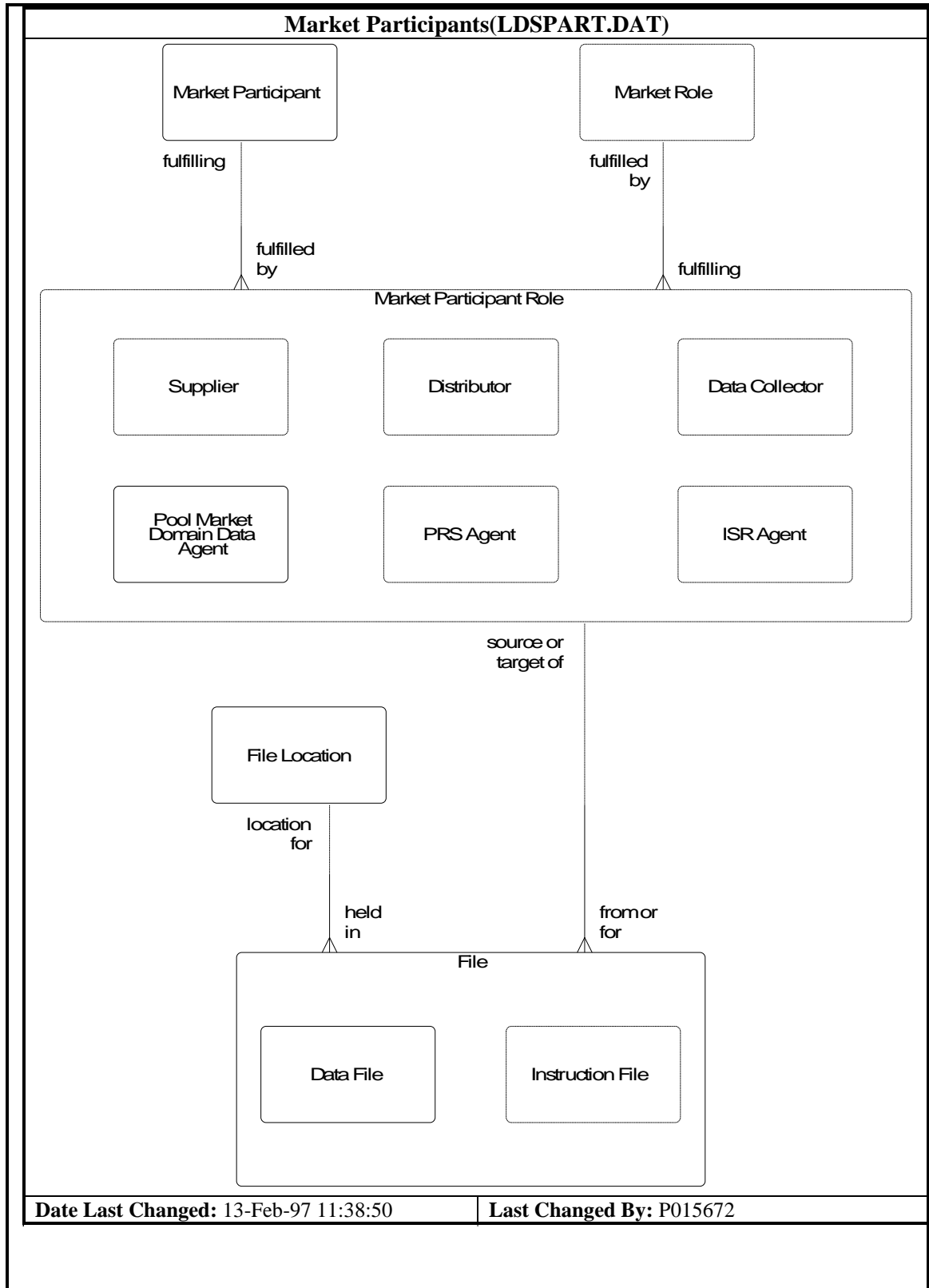


Figure 4 - Market Participants (LDS)

3 General Notes on the Entities

3.1 Introduction

The LDS has been split into four separate diagrams, figures 1-4 above. [NHHDAURS] split the LDS into two diagrams for clarity, the Core LDS and the Data Collector LDS, and this approach has been retained. Two further diagrams have been added. These model data which was not included in [NHHDAURS] but which was described in [DIS]; file-handling and instruction-handling data common to all the 1998 Programme systems.

At first sight file-handling and instruction-handling seem too physical to have any place in a logical data design. However in [DIS], ELEXON defines how data and instructions are passed between the 1998 systems in Files, and so “File” and “Instruction” are part of the real world which the logical design is modelling.

3.2 The Core LDS

This diagram shows the PRS Agent’s view of the data necessary for the population of the Supplier Purchase Matrix. Apart from the Supplier Purchase Matrix entity itself, the entities model standing data which changes infrequently.

3.3 The Data Collector LDS

This diagram shows the Data Collector’s view i.e. it models data which is obtained from the Data Collector. All the entities which are shown only in this diagram have names with the suffix (DC). Some of these entities represent the Data Collector’s view of entities shown in the core diagram, and differ from them by having the Data Collector’s Market Participant Id and Market Participant Role as an extra part of their primary key.

For example, several Data Collectors may have a view of the same Settlement Configuration. The NHHDA system compares the information in the occurrences of the Settlement Configuration (DC) entity with the information in the Settlement Configuration entity and so validates whether the Data Collectors’ information is in line with the PRS Agent’s information.

3.4 The Instructions LDS

This diagram shows the entities involved in instruction processing.

3.5 The Market Participants LDS

This diagram represents a generic model for file processing, common to NHHDA and the other 1998 programme systems.

Data Files and Instruction Files as defined in [DIS] contain a source Market Participant Id and Market Participant Role Code and a target Market Participant Id and Market Participant Role Code. For any given 1998 system which has a view of a Data File or Instruction File, one of these pairs will always be the Market Participant Id and Market Participant Role of itself, so this pair is excluded from the Data File entity included in the generic model within the LDM.

One Market Participant can have more than one role, and for each role there may be more than one Market Participant, hence the link entity Market Participant Role is required.

3.6 Data not included on LDM

Audit data, user data, report data, and backup and restore data are not included in the LDM because they relate to non functional requirements which will be resolved in the physical design. (However references to auditing and user roles are made in [NFUNDEF] as far as they have been identified at this stage.)

Input/Output file data is not included unless it is stored in the system.

3.7 Assumptions used in Calculating the Volumetrics

For each entity in the Entity Descriptions section below, an Average Occurrence and a Maximum Occurrence are given. In each case the formula used to calculate the number is described. In general, it is assumed that two years and one month worth of data is held at any time. The volatility of all tables is low unless specified otherwise.

The Average Occurrence figures are based on 3,000,000 Metering Systems, plus the numbers given in Mandatory requirement O14 in [NHHDAURS].

The Maximum Occurrence figures are based on 10,000,000 Metering Systems, plus the numbers given in Highly Desirable requirement O15 in [NHHDAURS].

Calculated numbers are rounded to three significant figures.

3.8 Effective From Settlement Dates and Effective To Settlement Dates

Several entities contain these attributes, which specify the settlement dates between which the data in the occurrence of the entity is applicable. To distinguish them in the Data Dictionary, they are given a suffix to identify the entity e.g. {DAA} identifies the Data Aggregator Appointment entity. However in order to distinguish them in the Select CASE tool, a prefix was found to be necessary too, hence the Effective From Settlement Date entity in the Data Aggregator Appointment table has the attribute name X DAA Effective From Settlement Date {DAA}. In these names, X indicates From and Y indicates To.

These prefixes have been retained to simplify production of Logical Design documentation, however the prefixes have been ignored in determining their position in the alphabetical sequence of Data Items in section 5; they will all be found under 'Effective'.

The following table lists the affected Data Items:

URS Name				Logical Data Model Name			
Effective From Settlement Date				X AFYC Effective From Settlement Date			
{AFYC}				{AFYC}			
Effective To Settlement Date				Y AFYC Effective To Settlement Date			
{AFYC}				{AFYC}			
Effective From Settlement Date				X DAA Effective From Settlement Date			
{DAA}				{DAA}			
Effective From Settlement Date				X EACDC Effective From Settlement Date			
{EACDC}				{EACDC}			
Effective From Settlement Date				X GGD Effective From Settlement Date			
{GGD}				{GGD}			
Effective To Settlement Date				Y GGD Effective To Settlement Date			
{GGD}				{GGD}			
Effective From Settlement Date				X GGPCDE Effective From Settlement Date			
{GGPCDE}				{GGPCDE}			
Effective From Settlement Date				X MSES Effective From Settlement Date			
{MSES}				{MSES}			
Effective From Settlement Date				X MSESDC Effective From Settlement Date			
{MSESDC}				{MSESDC}			
Effective From Settlement Date				X MSGG Effective From Settlement Date			
{MSGG}				{MSGG}			
Effective From Settlement Date				X MSGGDC Effective From Settlement Date			
{MSGGDC}				{MSGGDC}			
Effective From Settlement Date				X MSLLC Effective From Settlement Date			
{MSLLFC}				{MSLLFC}			
Effective From Settlement Date				X MSMC Effective From Settlement Date			
{MSMC}				{MSMC}			
Effective From Settlement Date				X MSMCDC Effective From Settlement Date			
{MSMCDC}				{MSMCDC}			
Effective From Settlement Date				X MSPC Effective From Settlement Date			
{MSPC}				{MSPC}			
Effective From Settlement Date				X MSPCDC Effective From Settlement Date			
{MSPCDC}				{MSPCDC}			
Effective From Settlement Date				X RDC Effective From Settlement Date			
{RDC}				{RDC}			
Effective From Settlement Date				X REGI Effective From Settlement Date			
{REGI}				{REGI}			
Effective From Settlement Date				X SCDC Effective From Settlement Date			
{SCDC}				{SCDC}			
Effective From Settlement Date				X SCON Effective From Settlement Date			
{SCON}				{SCON}			
Effective From Settlement Date				X TPAR Effective From Settlement Date			
{TPAR}				{TPAR}			
Effective To Settlement Date				Y DAA Effective To Settlement Date			
{DAA}				{DAA}			

4 Entity Descriptions

4.1 Entity: 'Average Fraction of Yearly Consumption'

Description:

A specification of the average fraction of consumption which is attributed to a particular Measurement Requirement, in the context of a particular GSP Group, Standard Settlement Configuration and Profile Class.

Average Occurrence:

198,000, calculated as follows:

The Standard Settlement Configuration Id, Profile Class Id and Time Pattern Regime Id make up the Measurement Requirement Profile Class. The average volume of Measurement Requirement Profile Classes is 4284. Also assume 15 GSP groups, 1 new batch of data with a new Effective From Settlement Date sent every year, and data held on the system for 2 years and 1 month.

$$4284 \times 15 \times (1+25/12) = 198000$$

Max_Occurrence:

740,000 calculated as follows:

16,000 valid Measurement Requirement Profile Classes, with all other assumptions as stated in average occurrence calculation (above).

$$16000 \times 15 \times (1+25/12) = 740000$$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X AFYC Effective From Settlement Date {AFYC} (Prime Key)

Y AFYC Effective To Settlement Date {AFYC}

GSP Group Id (Prime Foreign)

Standard Settlement Configuration Id (Prime Foreign)

Profile Class Id (Prime Foreign)

Time Pattern Regime Id (Prime Foreign)

Average Fraction of Yearly Consumption

4.2 Entity: 'Data Aggregation Run'

Description:

An aggregation calculation for a Settlement. The aggregation calculation results in Supplier Purchase Matrices for the GSP Groups included in the run.

Average Occurrence:

4,560

(1 run per settlement, 7 settlements per working day stored in the system for 2 years 1 month)

$365 * 6 * 25 / 12 = 4560$

Max_Occurrence:

15,200

(2 runs per settlement, 10 settlements per working day stored in the system for 2 years 1 month)

$365 * 20 * 25 / 12 = 15200$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Data Aggregation Run Number (Prime Key)

Settlement Code (Foreign Key)

Settlement Date (Foreign Key)

Data Aggregation Run Date

Data Aggregation Run Time

Data Aggregation Run Status

Number of GSP Groups in Data Aggregation Run

4.3 Entity: 'Data Aggregator Appointment'

Description:

The Data Aggregator appointed by a Supplier to a Metering System to aggregate the Metering System's estimates of annual consumptions.

Average Occurrence:

6,940,000

Based on 4,560,000 registrations, the Data Aggregator being reappointed to the same Registration 0.25 times per year, and data held in system for 2 years 1 month:

$$4,560,000 * (1 + 0.25 * 25 / 12) = 6,940,000$$

Max_Occurrence:

23,100,000

Based on 15,200,000 registrations, the Data Aggregator being reappointed to the same Registration 0.25 times per year, and data held in system for 2 years 1 month:

$$15,200,000 * (1 + 0.25 * 25 / 12) = 23,100,000$$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X DAA Effective From Settlement Date {DAA} (Prime Key)

X REGI Effective From Settlement Date {REGI} (Prime Foreign)

Metering System Id (Prime Foreign)

Y DAA Effective To Settlement Date {DAA}

4.4 Entity: 'Data Collector'

Description:

An organisation that is accredited by the Pool and appointed by Suppliers to one or more Metering Systems to periodically collect and process meter readings and derive estimates of annual consumptions and send the results to Data Aggregators.

Average Occurrence:

100

Max_Occurrence:

2000

Aspect:

None

Super Type:

Market Participant Role

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Role Code (Prime Key)

Note

The Market Participant Role Code must be that for a Data Collector. A Data Collector may be identified by a Market Participant id only if the role is implicit from the context.

4.5 Entity: 'Data Collector Appointment'

Description:

A Supplier's appointment of a Data Collector for a Registration of a Metering System. The appointment is for provision of data collection services (including collection and processing of meter readings and derivation of estimates of annual consumptions). It is effective from a calendar date and entails provision of these services for settlement of all days in the Supplier's Registration of the Metering System (until the Supplier appoints a new Data Collector for the same Metering System Registration).

Average Occurrence:

6,940,000

Based on 4,560,000 registrations, a Data Collector being appointed to Registration 0.25 times per year, and data held in system for 2 years 1 month:

$$4,560,000 * (1 + 0.25 * 25 / 12) = 6,940,000$$

Max Occurrence:

23,100,000

Based on 15,200,000 registrations, a Data Collector being appointed to a Registration 0.25 times per year, and data held in system for 2 years 1 month:

$$15,200,000 * (1 + 0.25 * 25 / 12) = 23,100,000$$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Effective From Date {DCA} (Prime Key)

X REGI Effective From Settlement Date {REGI} (Prime Foreign)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Foreign Key)

Data Collector Market Participant Role Code (Foreign Key)

4.6 Entity: 'Data File'**Description:**

A class of file that contains data that do not explicitly affect any processing.

Data file types include Market Domain Data Complete Set, Data Aggregation and Settlements Timetable, Supplier Purchase Matrix, and Reports (for transmission).

Average Occurrence:

4,035,600

For Each Data Aggregation Run, one SPM file is produced for each GSP Group to be sent to ISRA, plus one additional file to be sent to each Supplier appearing in the SPM for each GSP group. There are 26 Market Domain Data Complete Set files and 2 Data Aggregation and Settlements TimetableFiles per year.

$$(4560*15)*(1+58)+(26+2)*25/12 = 4035658$$

(Data Aggregation Runs * GSP Groups) * (ISRA + Suppliers) + (MDD Complete Set+DAST)

Max_Occurrence:

45,828,000

For Each Data Aggregation Run, one SPM file is produced for each GSP Group to be sent to ISRA, plus one additional file to be sent to each Supplier appearing in the SPM for each GSP group. There are 26 Market Domain Data Complete Set files and 2 Data Aggregation and Settlements Timetable Files per year.

$$(15200*15)*(1+200)+(26+2)*25/12 = 45828058$$

(Data Aggregation Runs * GSP Groups) * (ISRA + Suppliers) + (MDD Complete Set+DAST)

Aspect:

None

Super Type:

File

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Role Code (Prime Key)

Data File Sequence Number (Prime Key)

File Name (Foreign Key)

File Format Code
File Content Code
Run Number
Run Type Code
Settlement Date (Optional)
Settlement Code (Optional)
GSP Group Id (Optional)
AA Percentage (Optional)

4.7 **Entity: 'Distributor'**

Description:

An organisation that owns and operates a distribution system.

Average Occurrence:

30

Max_Occurrence:

40

Aspect:

None

Super Type:

Market Participant Role

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Role Code (Prime Key)

Distributor Short Code

Note

The Market Participant Role Code must be that for a Distributor. A Distributor may be identified by a Market Participant id only if the role is implicit from the context. It should be noted that a Distributor must have an equivalent PRS Agent ID of the same organisation.

4.8 Entity: 'Energisation Status'

Description:

List of valid Energisation statuses

Average Occurrence:

2

Max_Occurrence:

2

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Energisation Status (Prime Key)

Energisation Status Description

4.9 Entity: 'Estimated Annual Consumption (DC)'**Description:**

A specific Data Collector's view of a Metering System's Settlement Register estimate of annual consumption.

This Estimate of Annual Consumption is usually based on the Settlement Register's meter advance. The exception to this is upon creation of Metering Systems and upon changes to their Standard Settlement Configuration.

Average Occurrence:

56,300,000

(same as for Meter Advance Consumption(DC))

Max_Occurrence:

188,000,000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Time Pattern Regime Id (Prime Foreign)

X EACDC Effective From Settlement Date {EACDC} (Prime Key)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

Standard Settlement Configuration Id (Prime Foreign)

Estimated Annual Consumption

4.10 Entity: 'Exception Data'**Description:**

Following ad-hoc production of D0095 exception files, the details of each file are stored for reporting purposes. A dummy exception type of 'TOT' is used for the total count of Metering Systems having at least one exception type of E01 to E14.

Average Occurrence:

$$100 * 58 * 2000 * 2 = 23,200,000$$

(Data Collectors * Suppliers * No. of Days Data Held * Average no. of exceptions per Data Collector/Supplier combination)

Max_Occurrence:

$$200 * 200 * 2000 * 15 = 1,200,000,000$$

(Data Collectors * Suppliers * No. of Days Data Held * Exception Types)

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Supplier Id (foreign)

Data Collector Id

Effective From Date {ED}

Effective To Date {ED}

Exception Type (Prime Key)

File ID (Prime Key)

File Creation Timestamp

Metering System Count by exception

4.11 Entity: 'File'**Description:**

(A copy of) a file sent from or received by the system details of which (or even the file itself) are required to be kept for audit purposes.

Average Occurrence:

942,458

(sum of occurrences of Data Files and Instruction Files)

Max_Occurrence:

4,380,058

(sum of occurrences of Data Files and Instruction Files)

Aspect:

None

Super Type:

None

Sub Types:

Data File

Instruction File

Attributes

Market Participant id

Market Participant Role Code

File Location (Foreign Key)

File Sent or Received

File Name (Prime Key)

File Sent or Received Timestamp (Optional)

File Creation Timestamp

File Processed Timestamp (Optional)

File status

4.12 Entity: 'File Location'

Description:

The location of a (copy of a) File.

Average Occurrence:

To be determined in Physical Design.

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

File Location (Prime Key)

4.13 Entity: 'GSP Group'**Description:**

A distinct electrical system, consisting of all or part of a distribution system (owned and operated by a Distributor) that is supplied from one or more Grid Supply Points for which total supply into the GSP Group can be determined for each half hour.

Average Occurrence:

15

Max_Occurrence:

15

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

GSP Group Id (Prime Key)

GSP Group Name

4.14 Entity: 'GSP Group Distributor'**Description:**

The Distributor's appointment to a GSP Group for a specified Settlement Date range. Each GSP Group must have one or more distributors for each Settlement Date.

Average Occurrence:

75

(15 GSPs x 5 Distributors)

Max_Occurrence:

75

(15 GSPs x 5 Distributors)

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X GGD Effective From Settlement Date {GGD} (Prime Key)

Y GGD Effective To Settlement Date {GGD}

GSP Group Id (Prime Foreign)

Distributor Market Participant id (Prime Foreign)

Distributor Market Participant Role Code (Foreign Key)

4.15 Entity: 'GSP Group in Aggregation Run'**Description:**

A GSP Group which is included in a Data Aggregation Run.

Average Occurrence:

68,400

(calculated as follows: 4560 aggregation runs stored in system, 15 GSP groups for each)

Max_Occurrence:

228,000

(calculated as follows: 15,200 aggregation runs stored in system, 15 GSP groups for each)

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

GSP Group Id (Prime Foreign)

Data Aggregation Run Number (Prime Foreign)

4.16 Entity: 'GSP Group Profile Class Researched Default EAC'**Description:**

The default Estimated Annual Consumption for a GSP Group and Profile Class (note that this entity is called GSP Profile Class Average EAC in the physical data model for historical reasons [CR487]).

Average Occurrence:

740

calculated as follows:

15 GSP groups x 16 profile classes, one change in Researched Default EAC per year, data held on line for 2 years 1 month

$$15 * 16 * (1 + 25/12) = 740$$

Max_Occurrence:

740

calculated as follows:

15 GSP groups x 20 profile classes, one change in Researched Default EAC per year, data held on line for 2 years 1 month

$$15 * 20 * (1 + 25/12) = 925$$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X GGPCDE Effective From Settlement Date {GGPCDE} (Prime Key)

GSP Group Id (Prime Foreign)

Profile Class Id (Prime Foreign)

Researched Default EAC

4.17 Entity: 'Instruction'**Description:**

An instruction received as part of a co-ordinated sequence of instructions from a Market Participant such as a Data Collector or PRS Agent.

Average Occurrence:

160,000

Calculated as follows:

Assume 3,000,000 metering systems. From EAC/AA, 1 instruction is received per metering system every quarter i.e. every 60 working days. So on one working day on average, instructions are received for $3,000,000 / 60 = 50,000$ metering systems. Also instructions are received from PRS agents, assume for 1% of metering systems every day on average: another 30,000 instructions.

Assume each instruction retained in system for 2 days: total instructions = $2 \times (50,000 + 30,000) = 160,000$

Max Occurrence:

10,540,000

Calculated as follows:

Assume 10,000,000 metering systems. From EAC/AA, 1 instruction is received per metering system every quarter i.e. every 60 working days. So on one working day on average, instructions are received for $10,000,000 / 60 = 170,000$ metering systems. Also instructions are received from PRS agents, assume for 1% of metering systems every day on average: another 100,000 instructions.

Assume each instruction retained in system for 2 days: total instructions = $2 \times (170,000 + 100,000) = 540,000$

Exceptionally, each PRS agent may send an instruction for every metering system: 10,000,000 in addition to those normally held, therefore maximum = 10,540,000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Instruction Sequence Number (Prime Key)

Market Participant id (Source) (Prime Foreign)

Market Participant Role Code (Source) (Prime Foreign)

Instruction File Sequence Number (Foreign Key)

Instruction Status

Metering System Id (Foreign Key)

Market Participant id (subject) (Foreign Key)

Market Participant Role Code (subject) (Foreign Key)

Instruction

Instruction Type (Foreign Key)

Significant Date

Reprocess Flag

Resend Request Flag

Resend Request Date

Last Process Date-Time

Resent File ID

4.18 Entity: 'Instruction Status Reason'**Description:**

The reason(s) why an instruction has its current Instruction Status

Average Occurrence:

48,000

Calculated as follows:

unprocessed instructions: 0 reasons

applied instructions: 0 reasons

failed instructions: 2 reasons (10% of Instructions)

others: 1 reason (10% of Instructions)

Max Occurrence:

3,162,000

Calculated as follows:

Same ratio as Average, using Max Instructions

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Instruction Sequence Number (Prime Foreign)

Market Participant id (Source) (Prime Foreign)

Market Participant Role Code (Source) (Prime Foreign)

Reason Number (Prime)

Instruction Status Reason

Aggregator Action State

4.19 Entity: 'Instruction File'**Description:**

A file of Instructions. Instructions actively result in processing, such as explicit database updates.

Instruction Files are received from the PRS Agent and from Data Collectors.

Average Occurrence:

87,400

Calculated as follows:

1 file received from each Data Collector per day. 1 file received from each PRS Agent per day. Occurrences held on system for 2 years 1 month. Assume 100 Data Collectors, 15 PRS Agents.

Max_Occurrence:

1,530,000

Calculated as follows:

1 file received from each Data Collector per day. 1 file received from each PRS Agent per day. Occurrences held on system for 2 years 1 month. Assume 2000 Data Collectors, 15 PRS Agents.

Aspect:

None

Super Type:

File

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Role Code (Prime Key)

Instruction File Sequence Number (Prime Key)

File Name (Foreign Key)

4.20 Entity: 'Instruction Type'**Description:**

A valid instruction type.

Average Occurrence:

9

(types NH01-NH09)

Max_Occurrence:

9

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Instruction Type (Prime Key)

Market Participant Role Code (Foreign Key)

4.21 Entity: 'ISR Agent'**Description:**

An agent of the Pool who may administer Interim Information, initial settlement and reconciliation of one or more GSP Groups.

Average Occurrence:

15

Max_Occurrence:

15

Aspect:

None

Super Type:

Market Participant Role

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Role Code (Prime Key)

Note

The Market Participant Role Code must be that for an ISR Agent. An ISR Agent may be identified by a Market Participant id only if the role is implicit from the context.

4.22 Entity: 'ISR Agent Appointment'**Description:**

The Pool appointment of an ISR Agent to administer Interim Information, initial settlement and reconciliation for a GSP Group.

Average Occurrence:

46

calculated as follows:

15 GSP groups, one change in ISR Agent per year, data held on line for 2 years 1 month

$$15 * (1 + 25/12) = 46.3$$

Max_Occurrence:

46

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Effective From Date {IAA} (Prime Key)

GSP Group Id (Prime Foreign)

Effective To Date {IAA}

ISR Agent Market Participant id (Foreign Key)

ISR Agent Market Participant Role Code (Foreign Key)

4.23 Entity: 'Line Loss Factor Class'**Description:**

A classification of Line Loss Factors, drawn up by a Distributor, which represents a set of Line Loss Factors.

Average Occurrence:

4500

(calculated as 150 Line Loss Classes x 30 Distributors)

Max_Occurrence:

6000

(calculated as 150 Line Loss Classes x 40 Distributors)

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Line Loss Factor Class Id (Prime Key)

Distributor Market Participant id (Prime Foreign)

Distributor Market Participant Role Code (Prime Foreign)

Line Loss Factor Class Description

4.24 Entity: 'Market Participant'**Description:**

A Market Participant is any organisation having dealings in the Market and which may communicate with the NHHDA system, including the organisation running the system.

Average Occurrence:

~ 200, less than the occurrences of Market Participant Role

Max_Occurrence:

~ 2000, less than the occurrences of Market Participant Role

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Name

4.25 Entity: 'Market Participant Role'**Description:**

A Market Participant in the capacity of a Market Role.

Average Occurrence:

204

(the sum of Data Collectors, Suppliers, Distributors, ISR Agents, Pool Market Domain Data Agent and PRS Agents)

Max_Occurrence:

2251

(the sum of Data Collectors, Suppliers, Distributors, ISR Agents, Pool Market Domain Data Agent and PRS Agents)

Aspect:

None

Super Type:

None

Sub Types:

Data Collector

Distributor

ISR Agent

Pool Market Domain Data Agent

PRS Agent

Supplier

Attributes

Market Participant id (Prime Foreign)

Market Participant Role Code (Prime Foreign)

Notes:

This is a generic entity. See also: Supplier, Data Collector, Distributor, ISR Agent, Pool Market Domain Data Agent , PRS Agent.

4.26 Entity: 'Market Role'**Description:**

A Role that a Market Participant may take on. These include: Data Aggregator, Data Collector, Distributor, IRS Agent, PRS Agent, and Supplier.

Average Occurrence:

12

(number of occurrences in initial value set, not expected to change)

Max_Occurrence:

12

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Market Participant Role Code (Prime Key)

Market Role Description

Notes:

ISR Agent: An agent of the Pool who may administer Interim Information, initial settlement and reconciliation of one or more GSP Groups.

PRS Agent: A PES Registration Service (PRS) Agent is an agent of a Distributor. They are appointed to provide a registration service for Metering Systems in one or more GSP Groups.

Distributor: An organisation that owns and operates a distribution system.

4.27 Entity: 'Measurement Class'**Description:**

A measurement classification of Metering System, which indicates how the consumption is measured

Valid initial set is:

1. Non Half Hourly Metered
2. Non Half Hourly Unmetered

Average Occurrence:

2

Max_Occurrence:

2

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Measurement Class Id (Prime Key)

Measurement Class Description

4.28 Entity: 'Measurement Requirement'**Description:**

A Standard Settlement Configuration requirement for consumption to be measured during a Time Pattern Regime.

Average Occurrence:

2104

Max_Occurrence:

4000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Time Pattern Regime Id (Prime Foreign)

Standard Settlement Configuration Id (Prime Foreign)

4.29 Entity: 'Meter Advance Consumption (DC)'**Description:**

A specific Data Collector's view of a Metering System's Settlement Register Annualised Advance.

This Annualised Advance is calculated from the Settlement Register's meter advance.

Average Occurrence:

56,300,000

calculated as 6,750,000 Data Collector views of Settlement Registers, 4 Meter Advanced Consumptions per year stored in system for 2 years 1 month

$6750000 * 4 * 25 / 12 = 56300000$

Max_Occurrence:

188,000,000

calculated as 22,500,000 Data Collector views of Settlement Registers, 4 Meter Advanced Consumptions per year stored in system for 2 years 1 month

$22500000 * 4 * 25 / 12 = 188000000$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Time Pattern Regime Id (Prime Foreign)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

Standard Settlement Configuration Id (Prime Foreign)

X MACDC Effective From Settlement Date {MACDC} (Prime Key)

Y MACDC Effective To Settlement Date {MACDC}

Annualised Advance

4.30 Entity: 'Metering System'**Description:**

The commercial item subject to electricity supply trade. The entity only relates to metering systems to which the Data Aggregator is appointed.

Average Occurrence:

3,000,000

Max_Occurrence:

10,000,000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Metering System Id (Prime Key)

Distributor Id (Foreign Key)

4.31 Entity: 'Metering System Energisation Status'**Description:**

The energisation status of a Metering System.

Average Occurrence:

9,250,000

calculated as follows:

3,000,000 Metering Systems, one change in Energisation Status per Metering System per year, data held on line for 2 years 1 month

$3,000,000 * (1 + 25/12) = 9,250,000$

Max_Occurrence:

30,800,000

calculated as follows:

10,000,000 Metering Systems, one change in Energisation Status per Metering System per year, data held on line for 2 years 1 month

$10,000,000 * (1 + 25/12) = 30,800,000$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X MSES Effective From Settlement Date {MSES} (Prime Key)

Metering System Id (Prime Foreign)

Energisation Status (Foreign Key)

4.32 Entity: 'Metering System Energisation Status {DC}'**Description:**

A Data Collector's view of a Metering System's Energisation Status.

Average Occurrence:

13,900,000

Calculated by assuming 1.5 Data Collectors have a view of each Metering System Energisation Status occurrence.

Max_Occurrence:

46,300,000

Calculated by assuming 1.5 Data Collectors have a view of each Metering System Energisation Status occurrence.

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X MSESDC Effective From Settlement Date {MSESDC} (Prime Key)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

Energisation Status (Foreign Key)

4.33 Entity: 'Metering System GSP Group'**Description:**

The GSP Group to which a Metering System is allocated.

Average Occurrence:

9,250,000

calculated as follows:

3,000,000 Metering Systems, one change in GSP Group per Metering System per year, data held on line for 2 years 1 month

$3,000,000 * (1 + 25/12) = 9,250,000$

Max_Occurrence:

30,800,000

calculated as follows:

10,000,000 Metering Systems, one change in GSP Group per Metering System per year, data held on line for 2 years 1 month

$10,000,000 * (1 + 25/12) = 30,800,000$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X MSGG Effective From Settlement Date {MSGG} (Prime Key)

Metering System Id (Prime Foreign)

GSP Group Id (Foreign Key)

4.34 Entity: 'Metering System GSP Group (DC)'**Description:**

A Data Collector's view of a Metering System's GSP Group.

Average Occurrence:

3,900,000

Calculated by assuming 1.5 Data Collectors have a view of each Metering System GSP Group occurrence

Max_Occurrence:

46,300,000

Calculated by assuming 1.5 Data Collectors have a view of each Metering System GSP Group occurrence.

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

GSP Group Id (Foreign Key)

X MSGGDC Effective From Settlement Date {MSGGDC} (Prime Key)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

4.35 Entity: 'Metering System Line Loss Factor Class'**Description:**

The Line Loss Factor Class to which a Metering System is allocated.

Average Occurrence:

9,250,000

calculated as follows:

3,000,000 Metering Systems, one change in Line Loss Factor Class per Metering System per year, data held on line for 2 years 1 month

$3,000,000 * (1 + 25/12) = 9,250,000$

Max_Occurrence:

30,800,000

calculated as follows:

10,000,000 Metering Systems, one change in Line Loss Factor Class per Metering System per year, data held on line for 2 years 1 month

$10,000,000 * (1 + 25/12) = 30,800,000$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X MSLLFC Effective From Settlement Date {MSLLFC} (Prime Key)

Metering System Id (Prime Foreign)

Distributor Market Participant id (Foreign Key)

Distributor Market Participant Role Code (Foreign Key)

Line Loss Factor Class Id (Foreign Key)

4.36 Entity: 'Metering System Measurement Class'**Description:**

The Measurement Class of a Metering System.

Average Occurrence:

3,630,000

calculated as follows:

3,000,000 Metering Systems, 0.1 changes in Measurement Class per Metering System per year, data held on line for 2 years 1 month

$3,000,000 * (1 + 0.1 * (25/12)) = 3,630,000$

Max_Occurrence:

12,100,000

calculated as follows:

10,000,000 Metering Systems, 0.1 changes in Measurement Class per Metering System per year, data held on line for 2 years 1 month

$10,000,000 * (1 + 0.1 * (25/12)) = 12,100,000$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X MSMC Effective From Settlement Date {MSMC} (Prime Key)

Metering System Id (Prime Foreign)

Measurement Class Id (Foreign Key)

4.37 Entity: 'Metering System Measurement Class (DC)'**Description:**

A Data Collector's view of a Metering System's Measurement Class.

Average Occurrence:

5,450,000

Calculated by assuming 1.5 Data Collectors have a view of each Metering System Measurement Class occurrence

Max_Occurrence:

18,200,000

Calculated by assuming 1.5 Data Collectors have a view of each Metering System Measurement Class occurrence.

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X MSMCDC Effective From Settlement Date {MSMCDC} (Prime Key)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

Measurement Class Id (Foreign Key)

4.38 Entity: 'Metering System Profile Class'**Description:**

The Profile Class to which a Metering System is allocated.

Average Occurrence:

9,250,000

calculated as follows:

3,000,000 Metering Systems, one change in Profile Class per Metering System per year, data held on line for 2 years 1 month

$$3,000,000 * (1 + 25/12) = 9,250,000$$

Max_Occurrence:

30,800,000

calculated as follows:

10,000,000 Metering Systems, one change in Profile Class per Metering System per year, data held on line for 2 years 1 month

$$10,000,000 * (1 + 25/12) = 30,800,000$$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X MSPC Effective From Settlement Date {MSPC} (Prime Key)

Metering System Id (Prime Foreign)

Profile Class Id (Foreign Key)

4.39 Entity: 'Metering System Profile Class (DC)'**Description:**

A Data Collector's view of a Metering System's Profile Class.

Average Occurrence:

13,900,000

Calculated by assuming 1.5 Data Collectors have a view of each Metering System Profile Class occurrence

Max_Occurrence:**Aspect:**

None

Super Type:

None

Sub Types:

None

Attributes

X MSPCDC Effective From Settlement Date {MSPCDC} (Prime Key)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

Profile Class Id (Foreign Key)

4.40 Entity: 'Pool Market Domain Agent'**Description:**

An organisation appointed by the Pool to supply Market Domain data to Market Participants.

Average Occurrence:

1

Max_Occurrence:

1

Aspect:

None

Super Type:

Market Participant Role

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Role Code (Prime Key)

Note

The Market Participant Role Code must be that for a Pool Market Domain Agent. A Pool Market Domain Agent may be identified by a Market Participant id only if the role is implicit from the context.

4.41 Entity: 'Profile Class'**Description:**

A classification of profile which represents an exclusive category of Customers whose consumption can be reasonably approximated to a common profile for the purpose of attributing an Estimated Annual Consumption or Annualised Advance to individual half hours for Settlement purposes.

Valid initial set is:

domestic, unrestricted

domestic, economy 7

non-domestic, non maximum demand, unrestricted

non-domestic, non maximum demand, economy 7

non-domestic, maximum demand, load factor 0 - 20%

non-domestic, maximum demand, load factor 20 - 30%

non-domestic, maximum demand, load factor 30 - 40%

non-domestic, maximum demand, load factor 40 - 100%

Average Occurrence:

16

Max_Occurrence:

20

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Profile Class Id (Prime Key)

Profile Class Description

4.42 Entity: 'PRS Agent'**Description:**

A PES Registration Service (PRS) Agent is an agent of a Distributor. They are appointed to provide a registration service for Metering Systems in one or more GSP Groups.

Average Occurrence:

30

Max_Occurrence:

40

Aspect:

None

Super Type:

Market Participant Role

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Role Code (Prime Key)

Note

The Market Participant Role Code must be that for a PRS Agent. A PRS Agent may be identified by a Market Participant id only if the role is implicit from the context.

4.43 Entity: 'PRS Agent Appointment'**Description:**

The Pool appointment of a PRS Agent to provide a registration service for a Distribution Business. A PRS Agent has the same Market Participant ID as the Distribution Business.

Average Occurrence:

30

Max_Occurrence:

40

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

GSP Group Id (Prime Foreign)

Distributor Market Participant id (Prime Foreign)

Distributor Market Participant Role Code (Prime Foreign)

PRS Agent Market Participant id (Prime Key)

PRS Agent Market Participant Role Code (Foreign Key)

4.44 Entity: 'Registration'**Description:**

The formal appointment of a Supplier having settlement liability for a Metering System. Only one Supplier may be liable for a given Settlement Day.

Average Occurrence:

4,560,000

Based on 3,000,000 Metering System, 0.25 changes per year in the Supplier, and data held in the system for 2 years 1 month.

$$3,000,000 * (1 + 0.25 * 25 / 12) = 4,560,000$$

Max_Occurrence:

15,200,000

Based on 10,000,000 Metering System, 0.25 changes per year in the Supplier, and data held in the system for 2 years 1 month.

$$10,000,000 * (1 + 0.25 * 25 / 12) = 15,200,000$$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X REGI Effective From Settlement Date {REGI} (Prime Key)

Metering System Id (Prime Foreign)

Supplier Market Participant id (Foreign Key)

Supplier Market Participant Role Code (Foreign Key)

4.45 Entity: 'Registration (DC)'**Description:**

A Data Collector's view of the Supplier with settlement liability for a Metering System.

Average Occurrence:

9,130,000

(assuming two Data Collectors each have a view of each Registration occurrence)

Max_Occurrence:

30,400,000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X RDC Effective From Settlement Date {RDC} (Prime Key)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

Supplier Market Participant id (Foreign Key)

Supplier Market Participant Role Code (Foreign Key)

4.46 Entity: 'Refresh Instruction Failure'**Description:**

Per Metering System details of "PRS Refresh" Instruction validation failures.

Average Occurrence:

Assuming 3,000,000 Metering Systems included in 2 refreshes per PRS Agent per year of which 10% have validation failures that are cleared after 2 weeks:

$$3,000,000 * 0.10 * 2 * 2 / 52 = 23,000$$

Max_Occurrence:

Assuming 3,000,000 Metering Systems of which 10% fail validation:

$$3,000,000 * 0.10 = 300,000$$

Aspect: None

Super Type: None

Sub Types: None

Attributes:

Metering System Id. (Prime Foreign)

Market Participant Id (Source) (Prime Foreign)

Market Participant Role Code (Source) (Prime Foreign)

Instruction File Sequence Number (Prime Foreign)

Significant Date

Resend Request Flag

Resend Request Date

4.47 Entity: 'Refresh Instruction Failure Reason'**Description:**

Per Metering System reason(s) why a "PRS Refresh" Instruction failed validation.

Average Occurrence:

Assuming 2 reasons per Refresh Instruction Failure:

$$2 * 23,000 = 46,000$$

Max_Occurrence:

Assuming 2 reasons per Refresh Instruction Failure:

$$2 * 300,000 = 600,000$$

Aspect: None

Super Type: None

Sub Types: None

Attributes:

Metering System Id. (Prime Foreign)

Market Participant Id (Source) (Prime Foreign)

Market Participant Role Code (Source) (Prime Foreign)

Instruction File Sequence Number (Prime Foreign)

Reason Number (Prime)

Instruction Failure Reason

Include Reason Flag

4.48 Entity: 'Refresh Summary Details'**Description:**

Detail of the number of Metering Systems contained in a refresh instruction and a measure of the success of that refresh.

Average Occurrence:

1 per refresh (may be repeated where physical processing divides processing)

Max_Occurrence:

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Instruction Sequence Number (Prime Foreign)

Market Participant id (Source) (Prime Foreign)

Market Participant Role Code (Source) (Prime Foreign)

Reason Number (Prime)

Metering System count

Metering System Failed count

Metering Systems to Delete count

Metering Systems to Delete Failed count

4.49 Entity: 'Return Parameter'**Description:**

Used in Manage Failed Instructions screen, stores the number of form calls to the batch procedure and the number of instructions resent.

Average Occurrence:

1 row per resend call. Resend call initiated from form and the form deletes the row prior to exit from form if all instructions are resent within the timeout period (60 seconds). The return id uniquely identifies all calls made by the form to the batch procedure comprising the complete set of instructions resent.

Max_Occurrence:

< 5000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Return ID (Prime Key)

Parameter Number

Parameter

Form Calls

Status

4.50 Entity: 'Settlement'**Description:**

A calculation of the funds to be cleared between Suppliers and Generators in respect of electricity traded through the Pool on a Settlement Day. This includes Interim Information, initial settlement and reconciliation.

For each Settlement Day the Pool publishes a schedule of Settlements in the form of the Settlements Timetable. For the Settlement Day, each Settlement is uniquely identified by a Settlement Code.

Average Occurrence:

4560

(calculated as follows: 6 settlements for each settlement date, each stored in the system for 2 years 1 month)

$$6*365*25/12=4560$$

Max_Occurrence:

7600

(calculated as follows: 10 settlements for each settlement date, each stored in the system for 2 years 1 month)

$$10*365*25/12=4560$$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Settlement Code (Prime Key)

Settlement Date (Prime Foreign)

ISR Notification Deadline Date

Payment Date

4.51 Entity: 'Settlement Configuration'**Description:**

The Standard Settlement Configuration which a Metering System assumes.

Average Occurrence:

6,130,000

calculated as follows:

3,000,000 Metering Systems, 0.5 changes in Standard Settlement Configuration per Metering System per year, data held on line for 2 years 1 month

$$3,000,000 * (1 + 0.5 * 25 / 12) = 6,130,000$$

Max_Occurrence:

20,400,000

calculated as follows:

10,000,000 Metering Systems, 0.5 changes in Standard Settlement Configuration per Metering System per year, data held on line for 2 years 1 month

$$10,000,000 * (1 + 0.5 * 25 / 12) = 20,400,000$$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X SCON Effective From Settlement Date {SCON} (Prime Key)

Metering System Id (Prime Foreign)

Standard Settlement Configuration Id (Foreign Key)

4.52 Entity: 'Settlement Configuration (DC)'**Description:**

A Data Collector's view of a Metering System's Standard Settlement Configuration.

Average Occurrence:

9,190,000

(assuming each Settlement Configuration viewed by 1.5 Data Collectors)

Max_Occurrence:

30,600,000

(assuming each Settlement Configuration viewed by 1.5 Data Collectors)

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

X SCDC Effective From Settlement Date {SCDC} (Prime Key)

Standard Settlement Configuration Id (Foreign Key)

4.53 Entity: 'Settlement Register (DC)'**Description:**

A Data Collector's view of a Metering System's Settlement Register.

A Settlement Register is a logical register of a Metering System to which consumption is required to be attributed for the purpose of Interim Information, Initial Settlement and Reconciliation. There is one Settlement Register per Measurement Requirement in the Metering System's Standard Settlement Configuration.

Average Occurrence:

13,800,000

Calculated as follows: 1.5 Settlement Registers for each Settlement Configuration (DC):

$9,190,000 * 1.5 = 13,800,000$

Max_Occurrence:

45,900,000

Calculated as follows: 1.5 Settlement Registers for each Settlement Configuration (DC):

$30,600,000 * 1.5 = 45,900,000$

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Time Pattern Regime Id (Prime Foreign)

Metering System Id (Prime Foreign)

Data Collector Market Participant id (Prime Foreign)

Data Collector Market Participant Role Code (Prime Foreign)

Standard Settlement Configuration Id (Prime Foreign)

4.54 Entity: 'Standard Settlement Configuration'**Description:**

A standard configuration, supported by Interim Information, Initial Settlement and Reconciliation, which Metering Systems may assume.

Each Standard Settlement Configuration comprises a set of Measurement Requirements.

Average Occurrence:

482

Max_Occurrence:

2500

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Standard Settlement Configuration Id (Prime Key)

Standard Settlement Configuration Desc

4.55 Entity: 'Supplier'**Description:**

An organisation that may buy energy and supply it to a customer - each supply to a customer being (either physically or logically) measured by a Metering System. Each such supply must be registered with ELEXON through the Supplier's Registration of the Metering System.

Average Occurrence:

58

Max_Occurrence:

200

Aspect:

None

Super Type:

Market Participant Role

Sub Types:

None

Attributes

Market Participant id (Prime Key)

Market Participant Role Code (Prime Key)

Note

The Market Participant Role Code must be that for a Supplier. A Supplier may be identified by a Market Participant id only if the role is implicit from the context.

4.56 Entity: 'Supplier Purchase Matrix'**Description:**

The Estimated Annual Consumption and Annualised Advance totals for a Supplier for: a GSP Group, Profile Class, Line Loss Factor Class and Measurement Requirement (collectively known as Settlement Class).

Synonyms:

Aggregated Result

Average Occurrence:

144,585

calculated as follows: 4284 Valid Measurement Profile Classes, 15 GSP Groups, 1.5 Line Loss Factor Class per VMRPC / GSP Group, 1.5 Suppliers per VMRPC / GSP Group, Supplier Purchase Matrix stored in System for 1 Aggregation Run.

$$4284 * 15 * 1.5 * 1.5 * 1 = 144585$$
Max_Occurrence:

1,440,000

calculated as follows: 16000 Valid Measurement Profile Classes, 15 GSP Groups, 2 Line Loss Factor Class per VMRPC / GSP Group, 3 Suppliers per VMRPC / GSP Group, Supplier Purchase Matrix stored in System for 1 Aggregation Run.

$$16000 * 15 * 2 * 3 * 1 = 1440000$$
Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Line Loss Factor Class Id (Prime Foreign)

Distributor Market Participant id (Prime Foreign)

Distributor Market Participant Role Code (Prime Foreign)

Supplier Market Participant id (Prime Foreign)

Supplier Market Participant Role Code (Prime Foreign)

Standard Settlement Configuration Id (Prime Foreign)

Profile Class Id (Prime Foreign)

Time Pattern Regime Id (Prime Foreign)

GSP Group Id (Prime Foreign)

Data Aggregation Run Number (Prime Foreign)

SPM Total EAC
SPM Total EAC MSID Count
SPM Default EAC MSID Count
SPM Total Unmetered Consumption
SPM Total Unmetered MSID Count
SPM Default Unmetered MSID Count
SPM Total Annualised Advance
SPM Total AA MSID Count

4.57 Entity: 'System Configuration'**Description:**

This entity is meant for System Configuration data such as the Market Participant Id of the Data Aggregator running the system.

Average Occurrence:

1

Max_Occurrence:

1

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Data Aggregator Id

Settlement Day Archive Days

Days before Notification for Aggregation Run

Organisation Name

Max Days Before Notification for Aggregation Run

Aggregate All Valid GSP Groups

Notes:

As this "entity" will only ever have one record, it does not really make sense to define a primary key. (Strictly, this should not really be defined as an entity.)

The attributes given are examples; there will be many others.

4.58 Entity: 'Threshold Parameter'**Description:**

EAC values for Metering System Settlement Registers without a valid EAC or AA provided by the appointed Data Collector are determined in one of two ways.

If it is statistically valid to use an average of the valid EACs/AAs that have been provided, this average is used. Otherwise the GSP Group Profile Class Researched Default EAC (pro rated to take into consideration the Average Fraction of Yearly Consumption) is used.

The threshold parameter defines the number of valid EACs/AAs that must have been provided for an average to be statistically valid.

Average Occurrence:

5

Calculated as follows:

2 new Threshold parameters per year, data stored in system for 2 years 1 month

$$1 + 2 * 25 / 12 = 5.17$$

Max_Occurrence:

5

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

X TPAR Effective From Settlement Date {TPAR} (Prime Key)

Threshold Parameter

4.59 Entity: 'Time Pattern Regime'**Description:**

A pattern of time representing the periods in a day when a Meter or Settlement Register is recording consumption. Each Time Pattern Regime is either statically controlled by a pre-defined set of clock intervals, or dynamically controlled through tele-switching.

Average Occurrence:

2,104

Max_Occurrence:

4,000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Time Pattern Regime Id (Prime Key)

4.60 Entity: 'Valid Measurement Requirement Profile Class'**Description:**

A Measurement Requirement within a Valid Settlement Configuration Profile Class.

Average Occurrence:

4,284

Max_Occurrence:

16,000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Standard Settlement Configuration Id (Prime Foreign)

Profile Class Id (Prime Foreign)

Time Pattern Regime Id (Prime Foreign)

Standard Settlement Configuration Id (duplicate) (Foreign Key)

Notes:

The Standard Settlement Configuration Id as part of the foreign key [Valid Settlement Configuration Profile Class] must be the same as the one which is part of [Measurement Requirement]

Ideally we do not want the second instance of this attribute but this is a limitation of the modelling technique.

Further comments added as a response to CR48:

The business rules governing Valid Measurement Requirement Profile Classes are difficult to represent on a Logical Data Model:

- every occurrence of Valid Settlement Configuration Profile Class must have a set of Valid Measurement Requirement Profiles associated with it;
- this set will be for the same Time Pattern Regimes as the set of Measurement Requirements associated with the corresponding Standard Settlement Configuration.

The representation on the LDM implies that there are two distinct relationships between Valid Measurement Requirement and Standard Settlement Configuration, which is incorrect. However this representation is retained as it is less misleading than the alternative proposed.

4.61 Entity: 'Valid Settlement Configuration Profile Class'**Description:**

A rule defining the valid Standard Settlement Configurations for a Profile Class.

Average Occurrence:

1,640

Max_Occurrence:

4,000

Aspect:

None

Super Type:

None

Sub Types:

None

Attributes

Standard Settlement Configuration Id (Prime Foreign)

Profile Class Id (Prime Foreign)

5 Data Catalogue

5.1 Data Item : 'AA Percentage'

Description :

Total SPM AA energy volume as a percentage of the total EAC energy volume and excludes Unmetered Metering Systems.

I.e. AA percentage =
$$\frac{\text{Sum(SPM total aa)}}{(\text{Sum(SPM total EAC)} + \text{Sum(SPM total aa)})} * 100$$

Attributes :

AA Percentage – Data File

Logical Format : NUM(5,2)

5.2 Data Item : 'Aggregator Action State'

Description :

Instruction reason action state. Set by the Data Aggregator to indicate whether action by the Data Aggregator is sufficient to resolve a failure reason and whether the action has been taken.

Attributes :

Instruction Status Reason - Aggregator Action State

Logical Format : CHAR(1)

Notes: Values are “Not set”, “DA cannot resolve”, “DA can resolve” and “DA has resolved”.

5.3 Data Item : 'Aggregate All Valid GSP Groups Value'

Description :

Determines if all valid GSP Groups should be included in an Aggregation run.

Attributes :

Aggregate All Valid GSP Groups - System Configuration

Logical Format : BOOLEAN

5.4 Data Item : 'Annualised Advance'

Description :

A Data Collector's calculation of an Annualised Advance of a Metering System's Settlement Register.

Attributes :

Annualised Advance - Meter Advance Consumption (DC)

Validation :

Can be negative

Logical Format : NUM(12,1)

5.5 Data Item : 'Average Fraction of Yearly Consumption'

Description :

The estimated fraction of consumption for Metering Systems in a Profile Class and Standard Settlement Configuration which belong to a particular Measurement Requirement.

Attributes :

Average Fraction of Yearly Consumption - Average Fraction of Yearly Consumption

Validation :

Must be a value between 0 and +1 inclusive.

Logical Format : NUM(7,6)

5.6 Data Item : 'Check Sum'

Description :

A value used to confirm that the file has not been altered or corrupted during transmission.

Attributes :

None

Logical Format : To be determined in Physical Design.

Notes:

Part of the Instruction File I/O structure in [DIS].

5.7 Data Item : 'Data Aggregation Run Date'

Description :

The date for which a Data Aggregation Run is scheduled or on which the run is completed.

Attributes :

Data Aggregation Run Date - Data Aggregation Run

Logical Format : DATE

5.8 Data Item : 'Data Aggregation Run Number'

Description :

The unique number automatically allocated to a Data Aggregation Run.

Attributes :

Data Aggregation Run Number - Data Aggregation Run

Data Aggregation Run Number - GSP Group in Aggregation Run

Data Aggregation Run Number - Supplier Purchase Matrix

Validation :

Unique positive integers, allocated sequentially starting from 1, within the constraints of the format.

Logical Format : INT(7)

5.9 Data Item : 'Data Aggregation Run Status'**Description :**

The status of the run.

Attributes :

Data Aggregation Run Status - Data Aggregation Run

Validation :

Within valid set:

Valid sets consists of:

Provisional

Provisional (Default)

Approved

Released

Running

Failed

Successful

Logical Format : CHAR(1)

5.10 Data Item : 'Data Aggregation Run Time'**Description :**

The time for which a Data Aggregation Run is scheduled or on which the run is completed.

Attributes :

Data Aggregation Run Time - Data Aggregation Run

Logical Format : TIME

5.11 Data Item : 'Data Aggregator Id'**Description :**

The identifier of a Data Aggregator.

Attributes :

Data Aggregator Id – System Configuration

Synonyms :

Market Participant Id

Logical Format : CHAR(4)

Notes :

The Market Participant Id of the Data Aggregator who runs the NHHDA system.

5.12 Data Item : 'Data Collector Id'**Description :**

The identifier of a Data Collector (Used when the context implies the Market Participant Role).

Attributes :

Data_Collector_Id – Exception Data

Synonyms :

Market Participant Id

Logical Format : CHAR(4)

5.13 Data Item : 'Data Collector Name'**Description :**

The name of a Data Collector.

Attributes :

None

Synonyms :

Market Participant Name

Logical Format : CHAR(30)

5.14 Data Item : 'Data File Sequence Number'**Description :**

Sequence number that uniquely identifies each Data File.

Attributes :

Data File Sequence Number - Data File

Logical Format :

INT(6)

5.15 Data Item : 'Data Set Count'**Description :**

The number of data records in the data section of a Data File.

Attributes :

None

- Logical Format :** INT(7)
- Notes :**
Part of the Data File I/O structure in [DIS].
- 5.16 Data Item : 'Date for which Metering System Details Required'**
- Description :**
Date stipulated by the user for which he wants Metering System Details.
- Attributes :**
None
- Logical Format :** DATE
- Notes :**
Date entered by user and processed without being stored in the system.
- 5.17 Data Item : 'Days before Notification for Aggregation Run'**
- Description :**
The number of working days before the notification date when the aggregation run should be performed.
- Attributes :**
Days before Notification for Aggregation Run - System Configuration
- Logical Format :** INT(2)
- 5.18 Data Item : 'Distributor Id'**
- Description :**
The identifier of a Distributor (Used when the context implies the Market Participant Role).
- Attributes :**
None
- Synonyms :**
Market Participant Id
- Logical Format :** CHAR(4)
- 5.19 Data Item : 'Distributor Name'**
- Description :**
The name of a Distributor.
- Attributes :**
None
- Synonyms :**
Market Participant Name

Logical Format : CHAR(30)

5.20 Data Item : 'Distributor Short Code'

Description :

The short code used to identify a Distributor as an alternative to the Market Participant id. The Distributor Short Code forms the first two characters of Metering System Id.

Attributes :

Distributor - Distributor Short Code

Logical Format : INT(2)

5.21 Data Item : 'Effective From Date {DCA}'

Description :

The first calendar date that an appointment of a Data Collector to a Metering System is in effect.

Attributes :

Effective From Date {DCA} - Data Collector Appointment

Logical Format : DATE

5.22 Data Item : 'Effective From Date {IAA}'

Description :

The first calendar date that an appointment of an ISR Agent to a GSP group is in effect.

Attributes :

Effective From Date {IAA} - ISR Agent Appointment

Logical Format : DATE

5.23 Data Item : 'X AFYC Effective From Settlement Date {AFYC}'

Description :

The first Settlement Date for which an Average Fraction of Yearly Consumption is effective.

Attributes :

X AFYC Effective From Settlement Date {AFYC} - Average Fraction of Yearly Consumption

Logical Format : DATE

5.24 Data Item : 'Y AFYC Effective To Settlement Date {AFYC}'

Description :

The last Settlement Date for which an Average Fraction of Yearly Consumption is effective.

Attributes :

Y AFYC Effective To Settlement Date {AFYC} - Average Fraction of Yearly Consumption

- Logical Format : DATE**
- 5.25 Data Item : 'X DAA Effective From Settlement Date {DAA}'**
- Description :**
The first Settlement Date that an appointment of a Data Aggregator to a Metering System is in effect.
- Attributes :**
X DAA Effective From Settlement Date {DAA} - Data Aggregator Appointment
- Logical Format : DATE**
- 5.26 Data Item : 'X EACDC Effective From Settlement Date {EACDC}'**
- Description :**
A Data Collector's view of the first Settlement Date for which an Estimated Annual Consumption is effective. This date will be one day after the period that was used to calculate the Estimated Annual Consumption (and corresponding Annualised Advance).
- Attributes :**
X EACDC Effective From Settlement Date {EACDC} - Estimated Annual Consumption (DC)
- Logical Format : DATE**
- 5.27 Data Item : 'X GGD Effective From Settlement Date {GGD}'**
- Description :**
The first Settlement Date that a GSP group is within a Distributor's system.
- Attributes :**
X GGD Effective From Settlement Date {GGD} - GSP Group Distributor
- Logical Format : DATE**
- 5.28 Data Item : 'Y GGD Effective To Settlement Date {GGD}'**
- Description :**
The last Settlement Date that a GSP group is within a Distributor's system.
- Attributes :**
Y GGD Effective To Settlement Date {GGD} - GSP Group Distributor
- Logical Format : DATE**
- 5.29 Data Item : 'X GGPCDE Effective From Settlement Date {GGPCDE}'**
- Description :**
The first Settlement Date that a Researched Default EAC applies for a GSP Group and Profile Class.
- Attributes :**
X GGPCDE Effective From Settlement Date {GGPCDE} - GSP Group Profile Class Researched Default EAC

Logical Format : DATE

5.30 Data Item : 'X MACDC Effective From Settlement Date {MACDC}'

Description :

The first date of the period for which the Meter Advance Consumption is calculated.

Attributes :

X MACDC Effective From Settlement Date {MACDC} - Meter Advance Consumption (DC)

Logical Format : DATE

5.31 Data Item : 'X MSES Effective From Settlement Date {MSES}'

Description :

The first Settlement Date that an Energisation Status is in effect for a Metering System.

Attributes :

X MSES Effective From Settlement Date {MSES} - Metering System Energisation Status

Logical Format : DATE

5.32 Data Item : 'X MSESDC Effective From Settlement Date {MSESDC}'

Description :

A Data Collector's view of the first Settlement Date that a Metering System assumes an Energisation Status.

Attributes :

X MSESDC Effective From Settlement Date {MSESDC} - Metering System Energisation Status {DC}

Logical Format : DATE

5.33 Data Item : 'X MSGG Effective From Settlement Date {MSGG}'

Description :

The first Settlement Date that a Metering System is in a GSP Group.

Attributes :

X MSGG Effective From Settlement Date {MSGG} - Metering System GSP Group

Logical Format : DATE

5.34 Data Item : 'X MSGGDC Effective From Settlement Date {MSGGDC}'

Description :

A Data Collector's view of the first Settlement Date that a Metering System is in a GSP Group.

Attributes :

X MSGGDC Effective From Settlement Date {MSGGDC} - Metering System GSP Group (DC)
Logical Format : DATE

5.35 Data Item : 'X MSLLFC Effective From Settlement Date {MSLLFC}'**Description :**

The first Settlement Date that a Metering System assumes a Line Loss Factor Class.

Attributes :

X MSLLFC Effective From Settlement Date {MSLLFC} - Metering System Line Loss Factor Class

Logical Format : DATE

5.36 Data Item : 'X MSMC Effective From Settlement Date {MSMC}'**Description :**

The first Settlement Date that a Metering System assumes a Measurement Class.

Attributes :

X MSMC Effective From Settlement Date {MSMC} - Metering System Measurement Class

Logical Format : DATE

5.37 Data Item : 'X MSMCDC Effective From Settlement Date {MSMCDC}'**Description :**

A Data Collector's view of the first Settlement Date that a Metering System assumes a Measurement Class.

Attributes :

X MSMCDC Effective From Settlement Date {MSMCDC} - Metering System Measurement Class (DC)

Logical Format : DATE

5.38 Data Item : 'X MSPC Effective From Settlement Date {MSPC}'**Description :**

The first Settlement Date that a Metering System assumes a Profile Class.

Attributes :

X MSPC Effective From Settlement Date {MSPC} - Metering System Profile Class

Logical Format : DATE

5.39 Data Item : 'X MSPCDC Effective From Settlement Date {MSPCDC}'

Description :

A Data Collector's view of the first Settlement Date that a Metering System assumes a Profile Class.

Attributes :

X MSPCDC Effective From Settlement Date {MSPCDC} - Metering System Profile Class (DC)

Logical Format : DATE

5.40 Data Item : 'X RDC Effective From Settlement Date {RDC}'

Description :

A Data Collector's view of the first Settlement Date of a Supplier's Registration to a Metering System.

Attributes :

X RDC Effective From Settlement Date {RDC} - Registration (DC)

Logical Format : DATE

5.41 Data Item : 'X REGI Effective From Settlement Date {REGI}'

Description :

The first Settlement Date of a Supplier's Registration to a Metering System.

Attributes :

X REGI Effective From Settlement Date {REGI} - Registration

X REGI Effective From Settlement Date {REGI} - Data Aggregator Appointment

X REGI Effective From Settlement Date {REGI} - Data Collector Appointment

Logical Format : DATE

5.42 Data Item : 'X SCDC Effective From Settlement Date {SCDC}'

Description :

A Data Collector's view of the first Settlement Date that a Metering System assumes a Standard Settlement Configuration.

Attributes :

X SCDC Effective From Settlement Date {SCDC} - Settlement Configuration (DC)

Logical Format : DATE

5.43 Data Item : 'X SCON Effective From Settlement Date {SCON}'

Description :

The first Settlement Date that a Metering System assumes a Standard Settlement Configuration.

- Attributes :**
X SCON Effective From Settlement Date {SCON} - Settlement Configuration
Logical Format : DATE
- 5.44 Data Item : 'X TPAR Effective From Settlement Date {TPAR}'**
Description :
The first Settlement Date that a Threshold Parameter is in effect.
Attributes :
X TPAR Effective From Settlement Date {TPAR} - Threshold Parameter
Logical Format : DATE
- 5.45 Data Item : 'Effective From Date {ED}'**
Description :
Effective From Settlement Date from Check Data Collector run criteria (DC).
Attributes :
Effective From Date {ED} – Exception Data
Logical Format : DATE
- 5.46 Data Item : 'Effective To Date {ED}'**
Description :
Effective To Settlement Date from Check Data Collector run criteria (DC).
Attributes :
Effective To Date {ED} – Exception Data
Logical Format : DATE
- 5.47 Data Item : 'Effective To Date {IAA}'**
Description :
The last calendar date that an appointment of an ISR Agent to a GSP Group is in effect.
Attributes :
Effective To Date {IAA} - ISR Agent Appointment
Logical Format : DATE
- 5.48 Data Item : 'Y DAA Effective To Settlement Date {DAA}'**
Description :
The last Settlement Date that an appointment of a Data Aggregator to a Metering System is in effect.

Attributes :

Y DAA Effective To Settlement Date {DAA} - Data Aggregator Appointment

Logical Format : DATE

5.49 Data Item : 'Y MACDC Effective To Settlement Date {MACDC}'**Description :**

The last date of the period for which the Meter Advance Consumption is calculated.

Attributes :

Y MACDC Effective To Settlement Date {MACDC} - Meter Advance Consumption (DC)

Logical Format : DATE

5.50 Data Item : 'End'**Description :**

Part of End of File statement

Attributes :

None

Logical Format : To be determined in Physical Design.

Notes :

Part of the Data File I/O structure in [DIS].

5.51 Data Item : 'End Date for Selection'**Description :**

The end date of a date range entered by the user.

Attributes :

None

Logical Format : DATE

Notes :

Entered by the user and processed without being stored.

5.52 Data Item : 'Energisation Status'**Description :**

An Energisation Status of energised or de-energised.

Attributes :

Energisation Status - Energisation Status

Energisation Status - Metering System Energisation Status

Energisation Status - Metering System Energisation Status {DC}

- Validation :**
As Valid Set:
E or D (Energised or De-energised)
Logical Format : CHAR(1)
- 5.53 Data Item : 'Energisation Status Description'**
Description :
The description of an Energisation Status i.e. one of the character strings:
Energised
De-energised
Attributes :
Energisation Status Description - Energisation Status
Logical Format : CHAR(20)
- 5.54 Data Item : 'Estimated Annual Consumption'**
Description :
A Data Collector's calculation of an Estimated Annual Consumption of a Metering System's Settlement Register.
Attributes :
Estimated Annual Consumption - Estimated Annual Consumption (DC)
Validation :
can be negative
Logical Format : NUM(12,1)
- 5.55 Data Item : 'Exception Type'**
Description :
The exception type code for D0095 flow
Attributes :
Exception Type – Exception Data
Validation :
none
Logical Format : CHAR(3)
- 5.56 Data Item : 'File Content Code'**
Description :
Identifies the content of a Data File. For example, may be the mnemonic representing the report name.
Attributes :
File Content Code - Data File

Logical Format : CHAR(4)

5.57 Data Item : 'File Creation Timestamp'

Description :

Date and time a file was created or forwarded to the system by an external entity.

Attributes :

File Creation Timestamp - File

Logical Format :

DATETIME

5.58 Data Item : 'File Creation Date'

Description :

Date a D0095 file was created.

Attributes :

File Creation Date – Exception Data

Logical Format :

DATETIME

5.59 Data Item : 'File Format Code'

Description :

The code indicating the format of the file.

Attributes :

File Format Code - Data File

Validation:

As valid set.

E.g. of entry in valid set:

'DAT'

Logical Format: CHAR(3)

5.60 Data Item : 'File Id'

Description :

The Id of the exceptions file created

Attributes :

File ID – Exception Data

Validation:

None

Logical Format: INT(8)

- 5.61 Data Item : 'File Location'**
Description :
The physical location of a file.
Attributes :
File Location - File Location
File Location - File
Logical Format : CHAR(n)
- 5.62 Data Item : 'File Name'**
Description :
The name of the file as held by the system.
Attributes :
File Name - File
File Name - Data File
File Name - Instruction File
Logical Format : CHAR(n)
- 5.63 Data Item : 'File Processed Timestamp'**
Description :
The data and time a file received by the system was processed.
Attributes :
File Processed Timestamp - File
Logical Format : DATETIME
- 5.64 Data Item : 'File Sent or Received'**
Description :
Whether the file was sent from (or intended to be sent from) or received by the system.
Attributes :
File Sent or Received - File
Logical Format : CHAR(1)
- 5.65 Data Item : 'File Sent or Received Timestamp'**
Description :
The date and time a file was sent to or received from an external file (to the system) entity. E.g.: receipt of Daily Profile Coefficient file, sending of EAC/AA file.
Attributes :
File Sent or Received Timestamp - File

Logical Format : DATETIME

5.66 Data Item : 'File Status'

Description :

Status of the file, tracking the progress through the system of files received.
(It may also be useful for generated files.)

Attributes :

File status - File

Logical Format : CHAR(1)

5.67 Data Item : 'First Payment Date'

Description :

The start date (Payment Date) of timetable details in a Data Aggregation and Settlements Timetable file.

Attributes : None.

Logical Format : DATE

Notes :

Used in the Data Aggregation and Settlements Timetable File header.

5.68 Data Item : 'Form Calls'

Description :

Number of times the form has called the ProC module nmi_ret.

Attributes :

Form Calls – Return Parameter

Logical Format : INT(8)

5.69 Data Item : 'GSP Group Id'

Description :

The nationally unique identifier of a GSP Group.

Attributes :

GSP Group Id - GSP Group

GSP Group Id - Metering System GSP Group (DC)

GSP Group Id - ISR Agent Appointment

GSP Group Id - PRS Agent Appointment

GSP Group Id - GSP Group Distributor

GSP Group Id - Metering System GSP Group

GSP Group Id - GSP Group Profile Class Researched Default EAC

GSP Group Id - GSP Group in Aggregation Run

GSP Group Id - Average Fraction of Yearly Consumption

GSP Group Id - Supplier Purchase Matrix

- GSP Group Id - Data File
- Validation :**
As valid set; valid set to be determined by the pool
- Logical Format :** CHAR(2)
- 5.70 Data Item : 'GSP Group Name'**
- Description :**
The description of a GSP Group.
- Attributes :**
GSP Group Name - GSP Group
- Logical Format :** CHAR(30)
- 5.71 Data Item : 'Include Reason Flag'**
- Description :**
Indicates whether a Refresh Instruction Failure Reason is to be included when returning "PRS Refresh" Instructions with validation failures.
- Attributes :**
Refresh Instruction Failure Reason - Include Reason Flag
- Logical Format :** CHAR(1)
- 5.72 Data Item : 'Instruction'**
- Description :**
An Instruction as received in an Instruction File.
- Attributes :**
Instruction - Instruction
- 5.73 Data Item : 'Instruction Count with Status'**
- Description :**
The number of Instructions in the instruction section of an Instruction File with a specific Instruction Status.
- Attributes :**
None
- Logical Format :** INT(7)
- Notes :**
Part of the Data File I/O structure in [NFUNDEF].
- 5.74 Data Item : 'Instruction File Sequence Number'**
- Description :**
Each Instruction File is given a sequence number. A separate sequence is maintained for each combination of source and target (Market Participant Role). (The source of all files generated, and target of all files received, by the system will be the same.)

Note that there is no natural primary key for a data file that does not involve optional attributes.

Attributes :

Instruction File Sequence Number - Instruction File

Instruction File Sequence Number - Instruction

Logical Format : INT(6)

5.75 Data Item : 'Instruction Percentage with Status'

Description :

The percentage of Instructions in the instruction section of an Instruction File with a specific Instruction Status.

Attributes :

None

Logical Format : NUM(5,2)

Notes :

Part of the Data File I/O structure in [NFUNDEF].

5.76 Data Item : 'Instruction Sequence Number'

Description :

A sequence number for the Instruction. Each source/target combination has its own sequence.

Attributes :

Instruction Sequence Number - Instruction

Logical Format : INT(12)

5.77 Data Item : 'Instruction Status'

Description :

The status of an Instruction.

Attributes :

Instruction Status - Instruction

Validation :

Within valid set

Logical Format : CHAR(1)

Notes :

The status of an Instruction. For example Failed.

5.78 Data Item : 'Instruction Status Reason'

Description :

A reason for an Instruction having the status it does.

Made up of a reason code (2 characters) plus additional text (up to 80 characters).

Attributes :

Instruction Status Reason - Instruction

Instruction Failure Reason - Refresh Instruction Failure Reason

Logical Format : CHAR(82)

Notes :

Requirement F11

5.79 Data Item : 'Instruction Type'

Description :

The type of an Instruction e.g. 'NH01'.

Attributes :

Instruction Type - Instruction Type

Instruction Type - Instruction

Validation :

As valid set.

Initial values in set are:

NH01 to NH09

Logical Format : CHAR(4)

5.80 Data Item : 'ISR Agent Id'

Description :

The nationally unique identifier of an ISR Agent (Used when the context implies the Market Participant Role).

Attributes :

None

Synonyms :

Market Participant Id

Logical Format : CHAR(4)

5.81 Data Item : 'ISR Agent Name'

Description :

The name of an ISR Agent.

Attributes :

None

Synonyms :

Market Participant Name

- Logical Format :** CHAR(30)
- 5.82 Data Item : 'ISR Notification Deadline Date'**
- Description :**
The date by which ISR must receive the Supplier Purchase Matrix.
- Attributes :**
ISR Notification Deadline Date - Settlement
- Logical Format :** DATE
- 5.83 Data Item : 'Last Payment Date'**
- Description :**
The end date (Payment Date) of timetable details in a Data Aggregation and Settlements Timetable file.
- Attributes :** None.
- Logical Format :** DATE
- Notes :**
Used in the Data Aggregation and Settlements Timetable File header.
- 5.84 Data Item : 'Last Process Date-Time'**
- Description :**
Set by instruction processing when processing of the Instruction is attempted.
- Attributes :**
Instruction - Last Process Date-Time
- Logical Format :** DATETIME
- 5.85 Data Item : 'Line Loss Factor Class Description'**
- Description :**
The description of a Line Loss Factor Class.
- Attributes :**
Line Loss Factor Class Description - Line Loss Factor Class
- Logical Format :** CHAR(30)
- 5.86 Data Item : 'Line Loss Factor Class Id'**
- Description :**
The identifier for a Line Loss Factor Class within a Distributor's system.
- Attributes :**
Line Loss Factor Class Id - Line Loss Factor Class
Line Loss Factor Class Id - Metering System Line Loss Factor Class
Line Loss Factor Class Id - Supplier Purchase Matrix

Validation :

~~NoneZero or positive number within constraints of format~~

Logical Format : NUMCHAR(3)

Notes :

A unique identifier giving a Line Loss Factor Class.

5.87 Data Item : 'Market Participant Id'**Description :**

Unique id of a Market Participant.

Attributes :

Data Collector Market Participant id - Metering System Measurement Class (DC)

Data Collector Market Participant id - Registration (DC)

Data Collector Market Participant id - Metering System GSP Group (DC)

Data Collector Market Participant id - Metering System Profile Class (DC)

Data Collector Market Participant id - Settlement Configuration (DC)

Data Collector Market Participant id - Settlement Register (DC)

Data Collector Market Participant id - Metering System Energisation Status {DC}

Data Collector Market Participant id - Estimated Annual Consumption (DC)

Data Collector Market Participant id - Meter Advance Consumption (DC)

Data Collector Market Participant id - Data Collector Appointment

Data Collector Market Participant id – Exception Data (DC)

Distributor Market Participant id - GSP Group Distributor

Distributor Market Participant id - Line Loss Factor Class

Distributor Market Participant id - Supplier Purchase Matrix

Distributor Market Participant id - Metering System Line Loss Factor Class

ISR Agent Market Participant id - ISR Agent Appointment

Market Participant id - Market Participant

Market Participant id - Market Participant Role

Market Participant id - Data Collector

Market Participant id - Distributor

Market Participant id - ISR Agent

Market Participant id - PRS Agent

Market Participant id - Supplier

Market Participant id - File

Market Participant id - Data File

Market Participant id - Instruction File

Market Participant id (source) - Instruction

Market Participant id (subject) - Instruction

PRS Agent Market Participant id - PRS Agent Appointment

Supplier Market Participant id - Registration

Supplier Market Participant id - Registration (DC)

Supplier Market Participant id - Supplier Purchase Matrix

Logical Format :

CHAR(4)

5.88 Data Item : 'Market Participant Name'

Description :

The name of a Market Participant.

Attributes :

Market Participant Name - Market Participant

Logical Format : CHAR(30)

5.89 Data Item : 'Market Participant Role Code'

Description :

Unique id of a Market Role.

Attributes :

Data Collector Market Participant Role Code - Data Collector Appointment

Data Collector Market Participant Role Code - Metering System Measurement Class (DC)

Data Collector Market Participant Role Code - Registration (DC)

Data Collector Market Participant Role Code - Metering System GSP Group (DC)

Data Collector Market Participant Role Code - Metering System Profile Class (DC)

Data Collector Market Participant Role Code - Settlement Configuration (DC)

Data Collector Market Participant Role Code - Settlement Register (DC)

Data Collector Market Participant Role Code - Metering System Energisation Status {DC}

Data Collector Market Participant Role Code - Estimated Annual Consumption (DC)

Data Collector Market Participant Role Code - Meter Advance Consumption (DC)

Distributor Market Participant Role Code - GSP Group Distributor

Distributor Market Participant Role Code - Line Loss Factor Class
 Distributor Market Participant Role Code - Supplier Purchase Matrix
 Distributor Market Participant Role Code - Metering System Line Loss Factor Class
 ISR Agent Market Participant Role Code - ISR Agent Appointment
 Market Participant Role Code - Market Role
 Market Participant Role Code - Market Participant Role
 Market Participant Role Code - Data Collector
 Market Participant Role Code - Distributor
 Market Participant Role Code - ISR Agent
 Market Participant Role Code - PRS Agent
 Market Participant Role Code - Supplier
 Market Participant Role Code - Instruction Type
 Market Participant Role Code - File
 Market Participant Role Code - Data File
 Market Participant Role Code - Instruction File
 Market Participant Role Code (Source) - Instruction
 Market Participant Role Code (subject) - Instruction
 PRS Agent Market Participant Role Code - PRS Agent Appointment
 Supplier Market Participant Role Code - Registration
 Supplier Market Participant Role Code - Registration (DC)
 Supplier Market Participant Role Code - Supplier Purchase Matrix

Logical Format : CHAR(1)

5.90 Data Item : 'Market Role Description'

Description :

The description of a Market Role.

Attributes :

Market Role Description - Market Role

Logical Format : CHAR(30)

5.91 Data Item : 'Max Days Before Notification for Aggregation Run'

Description :

Maximum calendar days before notification for aggregation run.

Attributes :

Max Days Before Notification for Aggregation Run - System Configuration

Validation : 0-15

Logical Format : INT(2)

5.92 Data Item : 'Measurement Class Description'

Description :

The description of a Measurement Class. The initial values are:

'non half hourly metered'

'non half hourly unmetered'

Attributes :

Measurement Class Description - Measurement Class

Logical Format :

CHAR(30)

5.93 Data Item : 'Measurement Class Id'

Description :

The identifier of a Measurement Class.

Attributes :

Measurement Class Id - Measurement Class

Measurement Class Id - Metering System Measurement Class

Measurement Class Id - Metering System Measurement Class (DC)

Validation :

As valid set. Initial values of set are:

A (non half hourly metered)

B (non half hourly unmetered)

Logical Format : CHAR(1)

5.94 Data Item : 'Metering System count'

Description :

The number of Metering Systems encountered in a refresh instruction

Attributes :

Metering System count - Refresh Summary Details

Logical Format : INT(8)

5.95 Data Item : 'Metering System count by exception'

Description :

The number of Metering Systems encountered per exception type

Attributes :

Metering System count by exception – Exception Data

Logical Format : INT(10)

5.96 Data Item : 'Metering System Failed count'

Description :

The number of Metering Systems encountered in a refresh instruction which failed validation checks

Attributes :

Metering System Failed count - Refresh Summary Details

Logical Format : INT(8)

5.97 Data Item : 'Metering Systems to Delete count'

Description :

The number of Metering Systems not encountered in a refresh instruction but which are already held on the database for the distribution business to which the refresh applies

Attributes :

Metering System to Delete count - Refresh Summary Details

Logical Format : INT(8)

5.98 Data Item : 'Metering Systems to Delete Failed count'

Description :

The number of Metering Systems not encountered in a refresh instruction but which are already held on the database for the distribution business to which the refresh applies which failed validation checks

Attributes :

Metering System to Delete Failed count - Refresh Summary Details

Logical Format : INT(8)

5.99 Data Item : 'Metering System Id'

Description :

The nationally unique identifier of a Metering System.

Attributes :

Metering System Id - Metering System

Metering System Id - Metering System Line Loss Factor Class

Metering System Id - Metering System Profile Class

Metering System Id - Settlement Configuration

Metering System Id - Metering System Energisation Status

Metering System Id - Registration

Metering System Id - Metering System Measurement Class

Metering System Id - Metering System Measurement Class (DC)

Metering System Id - Registration (DC)
 Metering System Id - Metering System GSP Group (DC)
 Metering System Id - Metering System Profile Class (DC)
 Metering System Id - Settlement Configuration (DC)
 Metering System Id - Settlement Register (DC)
 Metering System Id - Metering System Energisation Status {DC}
 Metering System Id - Metering System GSP Group
 Metering System Id - Data Aggregator Appointment
 Metering System Id - Estimated Annual Consumption (DC)
 Metering System Id - Meter Advance Consumption (DC)
 Metering System Id - Data Collector Appointment
 Metering System Id - Instruction

Validation :

1-2: valid Distribution Business identifier
 3-12: Unique Number (within distribution business)
 13: Check digit

Logical Format : INT(13)**5.100 Data Item : 'Number of De-Energised MS with Non-Zero AA'****Description :**

The total number of de-energised Metering Systems for which the Data Collector has non-zero Annualised Advances. This value is part of the Data Collector Exception Report.

Attributes :

None

Validation :

Zero or positive number within constraints of format

Logical Format : INT(7)**Notes :**

Derived item calculated for Data Collector Exception Report.

5.101 Data Item : 'Number of GSP Groups in Data Aggregation Run'**Description :**

The number of GSP Groups in a Data Aggregation Run.

Attributes :

Number of GSP Groups in Data Aggregation Run - Data Aggregation Run

Validation :

Zero or positive number within constraints of format

- Logical Format :** INT(2)
- 5.102 Data Item :** 'Number of Metering Systems with Unexpected EACs'
- Description :**
- The total number of Metering Systems for which the Data Collector has provided EAC data, but is not the appointed Data Collector according to PRS. This value is part of the Data Collector Exception Report.
- Attributes :**
- None
- Validation :**
- Zero or positive number within constraints of format
- Logical Format :** INT(7)
- Notes :**
- Derived item calculated for Data Collector Exception Report.
- 5.103 Data Item :** 'Number of Metering Systems Without EAC'
- Description :**
- The total number of Metering Systems registered on PRS for which the Data Collector has failed to provide EAC data. This value is part of the Data Collector Exception Report.
- Attributes :**
- None
- Validation :**
- Zero or positive number within constraints of format
- Logical Format :** INT(7)
- Notes :**
- Derived item calculated for Data Collector Exception Report.
- 5.104 Data Item :** 'Number of MS with Inconsistent Energisation Status'
- Description :**
- The total number of Metering Systems for which the PRS and Data Collector views of the Energisation Status are different. This value is part of the Data Collector Exception Report.
- Attributes :**
- None
- Validation :**
- Zero or positive number within constraints of format
- Logical Format :** INT(7)
- Notes :**
- Derived item calculated for Data Collector Exception Report.

5.105 Data Item : 'Number of MS with Inconsistent GSP Group'**Description :**

The total number of Metering Systems for which the PRS and Data Collector views of the GSP Group are different. This value is part of the Data Collector Exception Report.

Attributes :

None

Validation :

Zero or positive number within constraints of format

Logical Format : INT(7)

Notes :

Derived item calculated for Data Collector Exception Report.

5.106 Data Item : 'Number of MS with Inconsistent Measurement Class'**Description :**

The total number of Metering Systems for which the PRS and Data Collector views of the Measurement Class are different. This value is part of the Data Collector Exception Report.

Attributes :

None

Validation :

Zero or positive number within constraints of format

Logical Format : INT(7)

Notes :

Derived item calculated for Data Collector Exception Report.

5.107 Data Item : 'Number of MS with Inconsistent Profile Class'**Description :**

The total number of Metering Systems for which the PRS and Data Collector views of the Profile Class are different. This value is part of the Data Collector Exception Report.

Attributes :

None

Validation :

Zero or positive number within constraints of format

Logical Format : INT(7)

Notes :

Derived item calculated for Data Collector Exception Report.

5.108 Data Item : 'Number of MS with Inconsistent Registration'**Description :**

The total number of Metering Systems for which the PRS and Data Collector views of the Supplier Registration are different. This value is part of the Data Collector Exception Report.

Attributes :

None

Validation :

Zero or positive number within constraints of format

Logical Format : INT(7)

Notes :

Derived item calculated for Data Collector Exception Report.

5.109 Data Item : 'Number of MS with Inconsistent SSC'**Description :**

The total number of Metering Systems for which the PRS and Data Collector views of the Standard Settlement Configuration are different. This value is part of the Data Collector Exception Report.

Attributes :

None

Validation :

Zero or positive number within constraints of format

Logical Format : INT(7)

Notes :

Derived item calculated for Data Collector Exception Report.

5.110 Data Item : 'Number of MS with Non-Contiguous Advances'**Description :**

The total number of Metering Systems for which the Data Collector has provided a non-contiguous set of Annualised Advances. This value is part of the Data Collector Exception Report.

Attributes :

None

Validation :

Zero or positive number within constraints of format

Logical Format : INT(7)

Notes :

Derived item calculated for Data Collector Exception Report.

- 5.111 Data Item : 'Organisation Name'**
Description :
Organisation name.
Attributes :
Organisation Name - System Configuration
Logical Format : CHAR(30)
- 5.112 Data Item : 'Parameter'**
Description :
Contains a count of instructions resent for use in a Forms message
Attributes :
Parameter – Return Parameter
Logical Format : CHAR(2000)
- 5.113 Data Item : 'Parameter Number'**
Description :
Sequential count of rows for the parameter. Normally has the value of 1.
Attributes :
Parameter_Number – Return Parameter
Logical Format : INT(2)
- 5.114 Data Item : 'Payment Date'**
Description :
The date by which funds must be transferred.
Attributes :
Payment Date - Settlement
Logical Format : DATE
- 5.115 Data Item : 'Planned Data Aggregation Run Date'**
Description :
The date for which a Data Aggregation Run should be scheduled according to the Data Aggregation and Settlements Timetable.
Attributes : None.
Logical Format : DATE
- 5.116 Data Item : 'Pool Market Domain Data Agent Id'**
Description :
The nationally unique identifier of the Pool agent appointed to provide Market Domain Data (Used when the context implies the Market Participant Role).

Attributes :

None

Synonyms :

Market Participant Id

Validation :

Valid set to be determined by the pool.

Logical Format : CHAR(4)**5.117 Data Item : 'Pool Market Domain Data Agent Name'****Description :**

The name of the Pool agent appointed to provide Market Domain Data.

Attributes :

None

Synonyms :

Market Participant Name

Logical Format : CHAR(30)**5.118 Data Item : 'Profile Class Description'****Description :**

The description of a Profile Class.

Attributes :

Profile Class Description - Profile Class

Logical Format : CHAR(50)**5.119 Data Item : 'Profile Class Id'****Description :**

The nationally unique identifier of a Profile Class.

Attributes :

Profile Class Id - Profile Class

Profile Class Id - Metering System Profile Class

Profile Class Id - Metering System Profile Class (DC)

Profile Class Id - Valid Settlement Configuration Profile Class

Profile Class Id - GSP Group Profile Class Researched Default EAC

Profile Class Id - Valid Measurement Requirement Profile Class

Profile Class Id - Supplier Purchase Matrix

Profile Class Id - Average Fraction of Yearly Consumption

Validation :

As valid set.

initial values in valid set are:

1, 2, 3, 4, 5, 6, 7, 8

Logical Format : INT(2)

5.120 Data Item : 'PRS Agent Id'

Description :

The nationally unique identifier of a PRS Agent (Used when the context implies the Market Participant Role).

Attributes :

None

Synonyms :

Market Participant Id

Logical Format : CHAR(4)

5.121 Data Item : 'PRS Agent Name'

Description :

The name of a PRS Agent.

Attributes :

None

Synonyms :

Market Participant Name

Logical Format : CHAR(30)

5.122 Data Item : 'Reason Number'

Description :

The sequential number of an Instruction Status Reason for a particular Instruction.

Attributes :

Reason Number - Instruction Status Reason

Logical Format : INT(12)

5.123 Data Item : 'Record Count'

Description :

The number of Records in the File.

Attributes :

None

Logical Format : INT(7)

Notes :

Part of the Data File I/O structure in [DIS].

5.124 Data Item : 'Reprocess Flag'

Description :

Set to “requested” by the Data Aggregator to tell the instruction processing subsystem to reprocess an Instruction after action has been taken to resolve that Instruction’s reason(s) for failure.

Set by the system to “cannot reprocess” if a subsequent successfully applied Instruction prevents reprocessing.

Set by the system to “not requested” when reprocessing attempted and on initialisation.

Attributes :

Instruction - Reprocess Flag

Logical Format : CHAR(1)

5.125 Data Item : 'Report Id'

Description :

The identifier of a report produced by the user.

Attributes :

None

Logical Format :

Standard report id format of 3rd party Report Writing Package.

Notes :

Used in report production functions to identify the report.

5.126 Data Item : 'Researched Default EAC'

Description :

The average Estimated Annual Consumption, determined through load research, for Metering Systems assuming a specific combination of GSP Group and Profile Class (note that this data item is called Researched Average EAC in the physical data model for historical reasons [CR487]).

Attributes :

Researched Default EAC - GSP Group Profile Class Researched Default EAC

Validation :

Zero or positive number within constraints of format.

Logical Format : NUM(12,1)

5.127 Data Item : 'Resend Request Date'

Description :

Set by instruction processing when the Instruction is included in a request for the Instruction's source to resend the data contained in the Instruction.

Attributes :

Instruction - Resend Request Date

Refresh Instruction Failure - Resend Request Date

Logical Format : DATE

5.128 Data Item : 'Resend Request Flag'

Description :

Set by the Data Aggregator to tell the instruction processing subsystem to request the Instruction's source to resend the data contained in the Instruction in order to resolve a failure state.

Attributes :

Instruction - Resend Request Flag

Refresh Instruction Failure - Resend Request Flag

Logical Format : CHAR(1)

5.129 Data Item : 'Resent File ID'

Description :

File ID of the D0023 that contained the failed instruction.

Attributes :

Resent File ID – Instruction

Logical Format : INT(9)

5.130 Data Item : 'Result Code'

Description :

Used when calling common processes to determine whether or not the processing is successful.

Attributes :

None

Validation :

In valid set:

Initial set of values : codes indicating: Initialised, Valid, Invalid

- Logical Format :** INT(1)
- Notes :**
Not stored in an entity.
- 5.131 Data Item : 'Return ID'**
- Description :**
Return ID represents a unique value used to identify the parameter
- Attributes :**
Return_id – Return Parameter
- Logical Format :** INT(8)
- 5.132 Data Item : 'Run Number'**
- Description :**
Run number including settlement run or version of a Data File.
- Attributes :**
Run Number - Data File
- Logical Format :**
INT(7)
- 5.133 Data Item : 'Run Type Code'**
- Description :**
The run type of a data file, e.g. 'B' signifying Daily Profile Production Run.
- Attributes :**
Run Type Code - Data File
- Logical Format :** CHAR(1)
- 5.134 Data Item : 'Settlement Code'**
- Description :**
A code which, along with a Settlement Date, identifies an Initial Settlement or Reconciliation published in the Pool's Settlement Timetable.
- Attributes :**
Settlement Code - Settlement
Settlement Code - Data Aggregation Run
Settlement Code - Data File
- Validation :**
As valid set.
Initial values are:
SF

R1

R2

R3

RF

DR

DF

Logical Format : CHAR(2)

5.135 Data Item : 'Settlement Day Archive Days'

Description :

The number of days after a settlement day before which the archive of any data relating to that day cannot be archived. (Requirement N30)

Attributes :

Settlement Day Archive Days - System Configuration

Logical Format : INT(4)

5.136 Data Item : 'Significant Date'

Description :

The date of the earliest change contained within an Instruction.

Attributes :

Instruction - Significant Date

Logical Format : DATE

5.137 Data Item : 'SPM Default EAC MSID Count'

Description :

The number of default Estimated Annual Consumptions that had to be used in the calculation of a Supplier Purchase Matrix's total EAC.

Attributes :

SPM Default EAC MSID Count - Supplier Purchase Matrix

Validation :

Zero or positive number within constraints of format

Logical Format : INT(8)

5.138 Data Item : 'SPM Default Unmetered MSID Count'

Description :

The number of default EACs that had to be used in the calculation of a Supplier Purchase Matrix's total unmetered consumption.

Attributes :

SPM Default Unmetered MSID Count - Supplier Purchase Matrix

Validation :

Zero or positive number within constraints of format

Logical Format : INT(8)

5.139 Data Item : 'SPM Total AA MSID Count'**Description :**

The number of Metering Systems contributing to a Supplier Purchase Matrix's total Annualised Advance (i.e., the number of energised Metering Systems with Annualised Advances plus the number of de-energised Metering Systems with non-zero Annualised Advances).

Attributes :

SPM Total AA MSID Count - Supplier Purchase Matrix

Validation :

Zero or positive number within constraints of format

Logical Format : INT(8)

5.140 Data Item : 'SPM Total Annualised Advance'**Description :**

The sum of Annualised Advances for Metering Systems contributing to a Supplier Purchase Matrix.

Attributes :

SPM Total Annualised Advance - Supplier Purchase Matrix

Validation :

Zero or positive number within constraints of format

Logical Format : NUM(19,1)

5.141 Data Item : 'SPM Total EAC'**Description :**

The sum of Estimated Annual Consumptions for Metering Systems with a metered Measurement Class contributing to a Supplier Purchase Matrix.

Attributes :

SPM Total EAC - Supplier Purchase Matrix

Validation :

Zero or positive number within constraints of format

Logical Format : NUM(19,1)

5.142 Data Item : 'SPM Total EAC MSID Count'**Description :**

The number of Metering Systems contributing to a Supplier Purchase Matrix's total EAC.

Attributes :

SPM Total EAC MSID Count - Supplier Purchase Matrix

Validation :

Zero or positive number within constraints of format

Logical Format : INT(8)

5.143 Data Item : 'SPM Total Unmetered Consumption'

Description :

The sum of Estimated Annual Consumptions for Metering Systems with an unmetered Measurement Class contributing to a Supplier Purchase Matrix.

Attributes :

SPM Total Unmetered Consumption - Supplier Purchase Matrix

Validation :

Zero or positive number within constraints of format

Logical Format : NUM(19,1)

5.144 Data Item : 'SPM Total Unmetered MSID Count'

Description :

The number of Metering Systems contributing to a Supplier Purchase Matrix's total unmetered consumption.

Attributes :

SPM Total Unmetered MSID Count - Supplier Purchase Matrix

Validation :

Zero or positive number within constraints of format

Logical Format : INT(8)

5.145 Data Item : 'Standard Settlement Configuration Desc'

Description :

The description of a Standard Settlement Configuration.

Attributes :

Standard Settlement Configuration Desc - Standard Settlement Configuration

Logical Format : CHAR(50)

5.146 Data Item : 'Standard Settlement Configuration Id'

Description :

The nationally unique identifier of a Standard Settlement Configuration.

Attributes :

Standard Settlement Configuration Id - Standard Settlement Configuration

Standard Settlement Configuration Id - Settlement Configuration

Standard Settlement Configuration Id - Settlement Configuration (DC)

Standard Settlement Configuration Id - Measurement Requirement

Standard Settlement Configuration Id - Valid Settlement Configuration Profile Class

Standard Settlement Configuration Id - Valid Measurement Requirement Profile Class

Standard Settlement Configuration Id - Settlement Register (DC)

Standard Settlement Configuration Id - Supplier Purchase Matrix

Standard Settlement Configuration Id - Average Fraction of Yearly Consumption

Standard Settlement Configuration Id - Estimated Annual Consumption (DC)

Standard Settlement Configuration Id - Meter Advance Consumption (DC)

Standard Settlement Configuration Id (duplicate) - Valid Measurement Requirement Profile Class

Logical Format : CHAR(4)

5.147 Data Item : 'Start Date for Selection'

Description :

The start date of a date range entered by the user

Attributes :

None

Logical Format : DATE

Notes :

Entered by the user and processed without being stored.

5.148 Data Item : 'Status'

Description :

Indicates status of completion in returning the parameter count to the form.

Attributes :

Status – Return Parameter

Logical Format : CHAR(1)

5.149 Data Item : 'Supplier Id'

Description :

The nationally unique identifier of a Supplier of electricity (Used when the context implies the Market Participant Role).

Attributes :

Supplier_Id – Exception Data

Synonyms :

Market Participant Id

Validation :

Valid set to be determined by the pool.

Logical Format : CHAR(4)

5.150 Data Item : 'Supplier Name'**Description :**

The name of an electricity Supplier.

Attributes :

None

Synonyms :

Market Participant Name

Logical Format : CHAR(30)

5.151 Data Item : 'Threshold Parameter'**Description :**

The minimum number of valid EACs/AAs that must be provided for averaging to be used as the mechanism for determining an EAC substitute for missing or invalid EAC/AAs.

Attributes :

Threshold Parameter - Threshold Parameter

Validation :

As valid set defined by the Pool

Logical Format : INT(7)

5.152 Data Item : 'Time Pattern Regime Id'**Description :**

The nationally unique identifier of a Time Pattern Regime.

Attributes :

Time Pattern Regime Id - Time Pattern Regime

Time Pattern Regime Id - Measurement Requirement

Time Pattern Regime Id - Settlement Register (DC)

Time Pattern Regime Id - Estimated Annual Consumption (DC)

Time Pattern Regime Id - Meter Advance Consumption (DC)

Time Pattern Regime Id - Valid Measurement Requirement Profile Class

Time Pattern Regime Id - Supplier Purchase Matrix

Time Pattern Regime Id - Average Fraction of Yearly Consumption

Validation :

As valid set to be determined by the pool

- Logical Format :** CHAR(5)
- 5.153 Data Item :** 'User Id'
- Description :**
The id of the user.
- Attributes :**
None
- Logical Format :** System User Id
- Notes :**
Input when specifying which users can access which data in ad-hoc reports.
Storage will be specified in physical design.
- 5.154 Data Item :** 'Demand Control Event Id'
- Description :**
The unique identifier of a Demand Control Event.
- Attributes :**
Demand Control Event Id – Start Date and Time of Demand Control Event
Demand Control Event Id - End Date and Time of Demand Control Event
- Validation :**
The Demand control Event Id should be Unique
- Logical Format :** INT(10)
- 5.155 Data Item :** 'Total CCC Disconnected MSID Count'
- Description :**
The count of disconnected metering systems registered and settled against a specific Consumption Component.
- Validation :**
As Valid Set
- Logical Format :** INT(8)
- 5.156 Data Item :** 'Daily Corrected BM Unit Demand Disconnection Line Losses'
- Description :**
The sum of Corrected BM Unit Demand Disconnection Line Losses for a Settlement Day.
- Validation :**
As Valid Set

Logical Format : NUM(14,4)

5.157 Data Item : 'Daily Corrected BM Unit Demand Disconnection Energy'

Description :

The sum of Corrected BM Unit Demand Disconnection Energy for a Settlement Day.

Validation :

As Valid Set

Logical Format : NUM(14,4)

5.158 Data Item : 'Daily Aggregated BM Unit Demand Disconnection Line Losses'

Description :

The sum of Aggregated BM Unit Demand Disconnection Line Losses for a Settlement Day.

Validation :

As Valid Set

Logical Format : NUM(14,4)

5.159 Data Item : ' Daily Aggregated BM Unit Demand Disconnection Energy '

Description :

The sum of Aggregated BM Unit Demand Disconnection Energy for a Settlement Day.

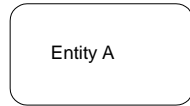
Validation :

As Valid Set

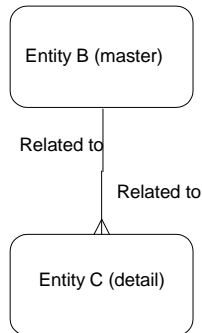
Logical Format : NUM(14,4)

Appendix A Format of Logical Data Design

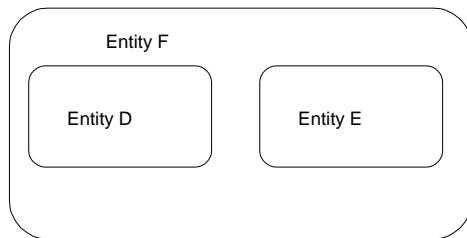
Logical Data Structure notation



A box (solid or dotted) denotes an entity. A dotted box indicates that the entity also appears on another diagram.



A line between two boxes means there is a relationship between the two entities. The entity at the single end of the line is termed the Master and the entity at the 'Crow's foot' end is termed the Detail. The relationship is called a 1:m relationship, in that the detail will have m occurrences for every single occurrence of the master. An optional or 'may' relationship is denoted by a dotted line leaving an entity, whilst a mandatory or 'must' relationship is denoted by solid line leaving the entity. In this example, we can say: "Entity A " may be related to one or Entity B", and "Entity B" must be related to one and only one "Entity A". Note that the whole relationship can be optional (all dotted) or mandatory (all solid).



An entity may be found to have several alternative behaviours such that each occurrence of the entity is of a particular type. The entity can be represented as a super-type and the alternative behaviours represented as sub-types. Super-types are represented by a large box within which the sub-types are represented by smaller boxes.

Entity Descriptions

Only those attributes that are relevant to the NHHDA System are listed against entities. Thus, in some cases, attributes listed for an entity may differ from those listed against the entity in other Logical Data Designs delivered as part of this project.

Data Catalogue

The following Logical Formats are used to describe data items:

Logical Format Type	Format Description	Logical Length
BOOLEAN	Boolean indicating true or false	1
CHAR(n)	general purpose character string, containing any alpha, numeric and special characters where alpha characters are in the standard English language set.	Any
DATE	date format ddmmYYYY	8
DATETIME	date/time format YYYYMMDDHHMMSS	14
INT(n)	integer item	Any
NUM(n,m)	real number	Any
TIME	time format hhmmss	6
TIMESTAMP	date/time format YYYYMMDD hhmmss.sssss	22

The Logical Length is indicated in parentheses (n) after the format type.

In order to provide an Attribute / Entity Cross Reference, the Attribute section within the Data Item definition contains one entry for each Entity in which the corresponding Attribute (if any) appears. The entry is in the form:

Attribute name - Entity name