BDM Data Standard – Provider Service Delivery

Version 1.0

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Document Version History

Version	Status	Date	Modified by	Change description	Section & line Ref	Changed from	Changed to	Effects of change
0.1	Draft	10/03/10	C.McGinn	First draft	-	-	-	-
0.2	Draft	31/03/10	C.McGinn	Review updates	-	-	-	-
1.0	Final	27/05/10	C.McGinn	First issue	-	-	-	-

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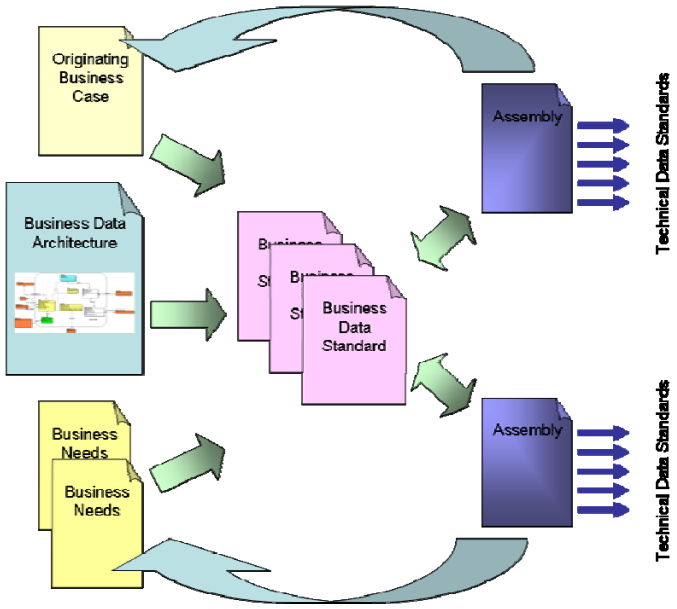
Introduction

This Business Data Standard has been designed to satisfy all education, skills and children's services (ESCS) business needs to exchange information about Provider Service Delivery in the context of the advertising of direct services and the provision of those services.

It describes a Provider's Service which is delivered at a particular location (for example at a particular premises) and specifies all the time periods that the service operates, including whether or not it is available to the consumer during each time period (i.e. the timetable). It also describes the capacity of the Provider to deliver the service.

This Business Data Standard has been defined in response to a business need captured in the ISB Business Case for Childcare Standards. In developing this standard, every effort has been made to ensure that it is capable of supporting all ESCS business needs for the same data. The Business Case may in fact give rise to a number of Business Data Standards, and the way that the standards are associated to meet the originating business need is shown via an "Assembly" document. The related documents are shown in the following diagram



This Business Data Standard shows how information relating to a Provider Service Delivery is structured into entities and relationships according to the ESCS Business Data Architecture and enumerates and defines each information attribute in terms of:

- The relationships between entities in this standard and further entities defined in other standards
- The semantics, or meaning, of each entity and each attribute
- The data type, field length and construction rules for each attribute in an encoding-independent manner.

- Where the value of an attribute is to be defined by a list of permitted values (a “code list”), a reference to the relevant code list standard
- Where the standard relates to information defined by a standard from an external organisation (ISO, BSI, CEN etc) then this will also be noted.
- Any business rules (e.g. mandatory status) that are true for *every* business use of the standard.

ESCS ICT systems may conform to this ISB Business Data Standard, along with other related Business Data Standards by defining a conformant Technical Data Standard that specifies an encoding schema for data exchange and other implementation-specific details, for example it may indicate that within the scope of its use one or more attributes are Mandatory. Those that do conform can be assured that their data will be interchangeable with any other conformant systems.

Data Standard

Entity relationships

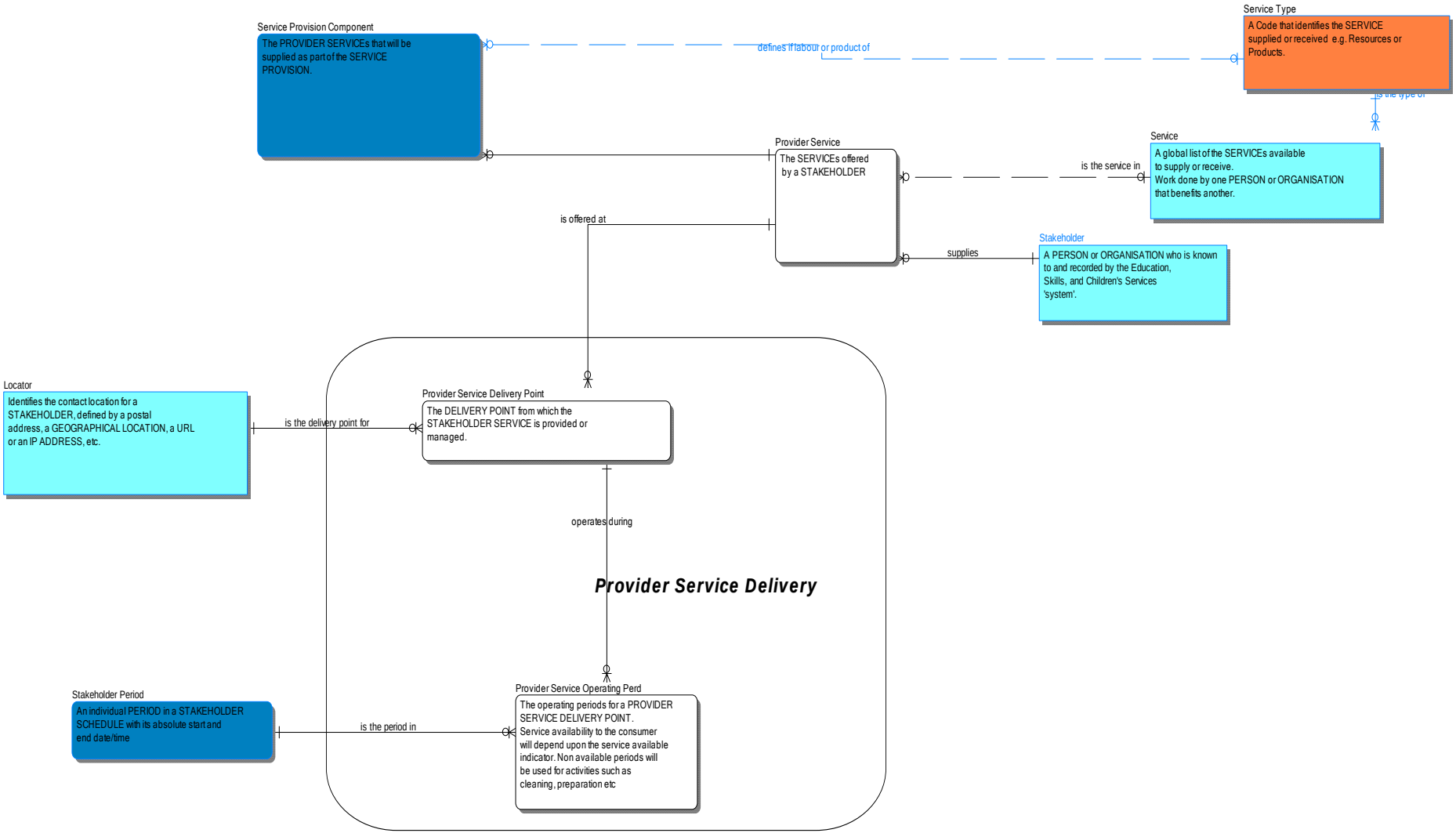
The following diagrams show the entities covered in this standard and their relationships to each other. The diagrams are:

- Entity Definition Model – A high level diagram extracted from the ESCS Business Data Architecture showing just the entities, their descriptions and the relationships between the entities.
- Attribute Model – A lower level diagram also extracted from the ESCS Business Data Architecture showing the entities and the names of their attributes. Entities in the Attribute Model are drawn as a box divided into two sections. The top section contains only attributes that form the primary key of the entity and the remaining attributes are placed in the bottom section.

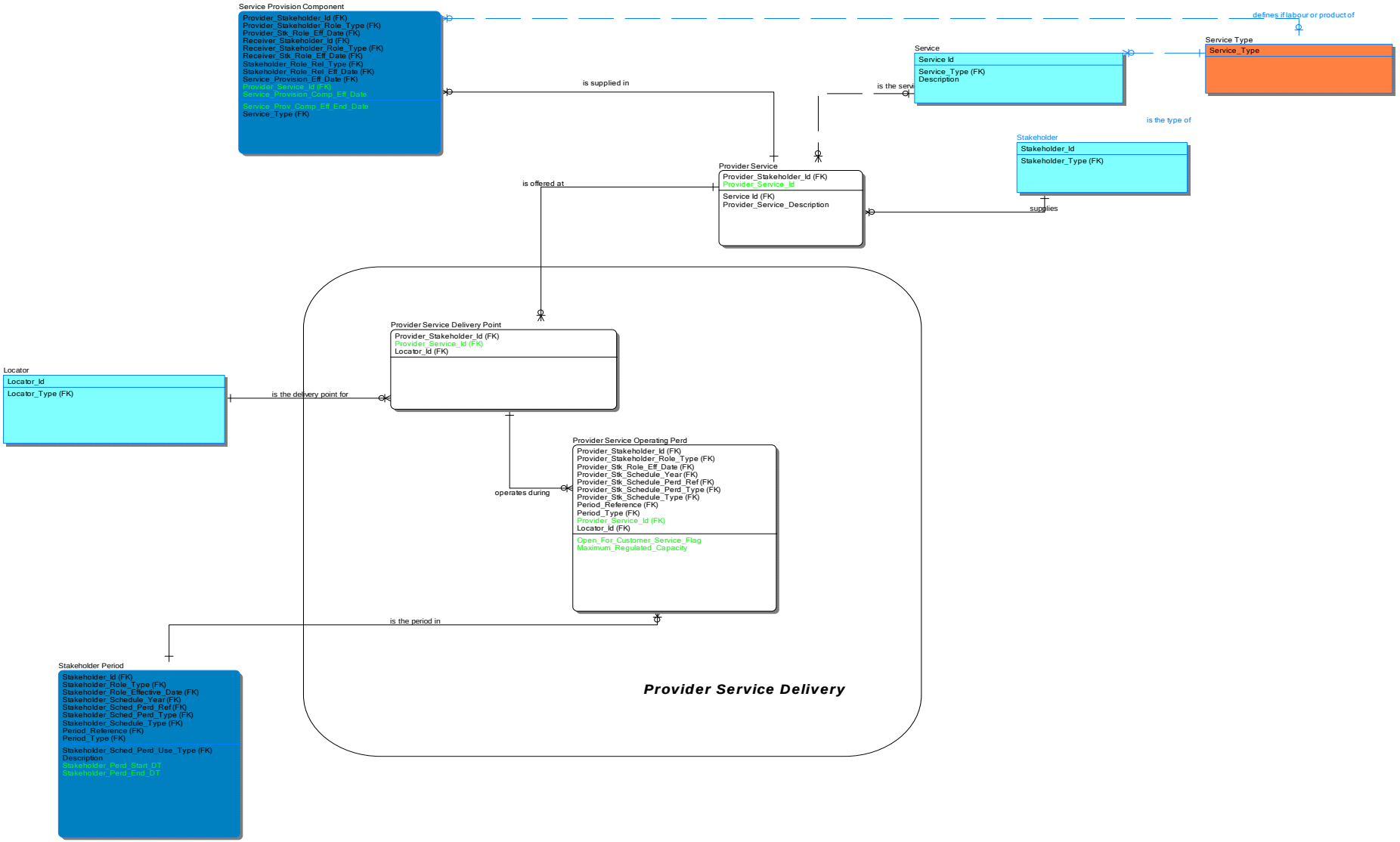
Diagram Notation

The notation used follows the Business Data Architecture Document notation (refer to ESCS Business Data Architecture document for further details). Only those entities within the boundary square are to be part of this particular data standard. Those entities outside of the boundary square are for context purposes only, or are separate reference data (orange coloured entities)

Entity Definition Model



Attribute Model



Data definitions

The following section further describes the entities and their attributes covered in this standard.

PK = Primary Key Attribute

FK =Foreign Key Attribute

M = Mandatory Attribute

Entity: Provider Service Delivery Point

The delivery point from which the STAKEHOLDER SERVICE is provided at or managed from.

Attribute Name	Attribute Description	PK	FK	M	Data Type	Parent Entity	Parent Attribute	Code List
Provider_Stakeholder_ID	A value that denotes and distinguishes the STAKEHOLDER	Y	Y	Y	Simple_String (1, 32)	Provider Service	Provider_Stakeholder_ID	
Provider_Service_ID	The id given by a STAKEHOLDER to a SERVICE they provide. This may be the same as the PROVIDER SERVICE DESCRIPTION where a surrogate id is not used by the PROVIDER STAKEHOLDER	Y	Y	Y	Unicode_String (1,1000)	Provider Service	Provider_Service_ID	
Locator_ID	A value that denotes and distinguishes the LOCATOR.	Y	Y	Y	Simple_String (1,36)	Locator	Locator_ID	

Entity: Provider Service Operating Period

The operating periods for a PROVIDER SERVICE DELIVERY POINT.

Attribute Name	Attribute Description	PK	FK	M	Data Type	Parent Entity	Parent Attribute	Code List
Provider_Stakeholder_ID	A value that denotes and distinguishes the STAKEHOLDER	Y	Y	Y	Simple_String (1, 32)	Provider Service Delivery Point	Provider_Stakeholder_ID	
Provider_Stakeholder_Role_Type	A Code that identifies a specific role of a STAKEHOLDER.e.g. LEARNER, LEARNING OPPORTUNITY PROVIDER. This attribute may appear prefixed with the role that is currently being undertaken. In this event the role_type is that specifically named role	Y	Y	Y	Simple_String (1, 50)	Stakeholder Period	Stakeholder_Role_Type	
Provider_Stk_Role_Eff_Date	The date from which the STAKEHOLDER is ready and approved (if necessary) to act in the specific role. This attribute may appear prefixed with a role type. In this event the effective date is that of the prefixed role type.	Y	Y	Y	Simple_Date_Time	Stakeholder Period	Stakeholder_Role_Effective_Date	
Provider_Stk_Schedule_Year	The Year for which this STAKEHOLDER SCHEDULE is applicable. The type of year (Calendar, Academic, Financial) is identified by the STAKEHOLDER SCHEDULE TYPE	Y	Y	Y	Simple_Date_Time	Stakeholder Period	Stakeholder_Schedule_Year	

Attribute Name	Attribute Description	PK	FK	M	Data Type	Parent Entity	Parent Attribute	Code List
Provider_Stk_Schedule_Perd_Ref	A value that identifies the schedule period. e.g. Period 1, Week 1, Spring Term, etc.	Y	Y	Y	Simple_String (1,50)	Stakeholder Period	Stakeholder_Sched_Period_Ref	CL_Period
Provider_Stk_Schedule_Perd_Type	The code that specifies the duration of the period of time (e.g. year, term, week, day, period)	Y	Y	Y	Simple_String (1,50)	Stakeholder Period	Stakeholder_Sched_Period_Type	CL_Period
Provider_Stk_Schedule_Type	A Code that identifies the category of significance of STAKEHOLDER SCHEDULE that may exist e.g., Academic Year Schedule, Financial Schedule	Y	Y	Y	Simple_String (1,50)	Stakeholder Period	Stakeholder_Schedule_Type	CL_Schedule_Type
Period_Reference	A code that identifies the schedule period. e.g. Period 1, Week 1, Spring Term, etc	Y	Y	Y	Simple_String (1,50)	Stakeholder Period	Period_Reference	CL_Period
Period_Type	The code that identifies the type of period (e.g. year, term, week, day, period)	Y	Y	Y	Simple_String (1,50)	Stakeholder Period	Period_Type	CL_Period
Provider_Service_ID	The id given by a STAKEHOLDER to a SERVICE they provide. This may be the same as the PROVIDER SERVICE DESCRIPTION where a surrogate id is not used by the provider STAKEHOLDER	Y	Y	Y	Unicode_String (1,1000)	Provider Service Delivery Point	Provider_Service_ID	

Attribute Name	Attribute Description	PK	FK	M	Data Type	Parent Entity	Parent Attribute	Code List
Locator_ID	A value that denotes and distinguishes the LOCATOR.	Y	Y	Y	Simple_String (1, 36)	Provider Service Delivery Point	Locator_ID	
Open_For_Customer_Service_Flag	A flag (Y/N) that identifies if during the current operating period the SERVICE is open to the customer. Other reasons for the service operating but not being open are for cleaning, administration etc.	N	N	N	Simple_Flag			
Maximum_Regulated_Capacity	The MAXIMUM REGULATED CAPACITY for the PROVIDER SERVICE OPERATING PERIOD derived from the minimum level of all the regulatory bodies' maximums. This denotes the maximum capacity that the PROVIDER SERVICE DELIVERY POINT can concurrently accommodate for a particular PERIOD under the various regulations that apply to it.	N	N	N	Integer			

Appendix A – Data Types

Note. Data Types are defined according to the conventions set out in the document “BDM Data Standard – Data Type Expressions”