

## QE Fee Category

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### Document Version History

Version	Status	BDS Approval Date	TDS Issue Date	Modified by	Description
1.0	Approved: recommended	23/07/2013	04/12/2013	ISB	New TDS
2.0	Approved: Recommended	17/02/2014	07/04/2014	ISB	Record_Delete_Flag added
3.0	Approved: Recommended	18/11/2014	08/12/2014	ISB	Amend element name QEFeeCategory_Id to QEFeeCategory_ID
4.0	Approved: Recommended	22/03/2016	26/04/2016	ISB	JCQ RFC Updates

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# 1 DATA STANDARD

## 1.1 Introduction

### 1.1.1 Application

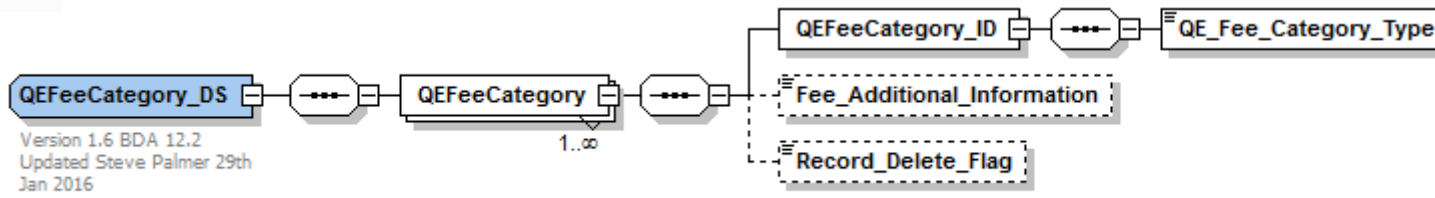
This Technical Data Standard (TDS) binds the QE Fee Category Business Data Standard (BDS) to an XML Schema (XSD) representation.

This standard allows each of the various fees payable for an instance of the qualification element availability entity to be categorised into one of a pre-defined set of categories.

### 1.1.2 Compatibility with non-ISB standards

There are no known compatibility issues related to this standard.

## 2 XSD



### **3 XSD NORMALISATION**

#### **3.1 Introduction**

This section defines normalisation that has been applied. The Business Data Standard data model may contain multiple entities that inherit primary keys from a parent entity. In this situation the same primary keys will occur in multiple entities. If this pattern was translated directly to the xsd then the same primary key element(s) would be repeated within the xsd. When parsing the xml, if the element was referenced without xpath then the particular instance of the repeated primary key element could not be determined.

If all instances of the repeated primary key element(s) contained the same value then there would not be an issue. However, if there were different values in the repeated primary key element(s) then the value to be returned would be indeterminate. To prevent this situation the conversion from the Entity Relationship Diagram (ERD) model to the xsd involved normalisation to remove the repetition. This results in nodes being created in the xsd to define primary keys once and sub-nodes created that inherit those keys. This section will identify any normalisation that has taken place and how it has been implemented in the schema.

#### **3.2 Details of Normalisation specific to QE Fee Category**

The QE Fee Category model consists of a single entity with a simple primary key.

Due to the single entity design, no normalisation is required.

## 4 XSD OPTIMISATION

### 4.1 Introduction

This section defines optimisation that has been applied to the xsd. The Business Data Standard data model may contain compound keys made up from a number of attributes. The sequence of the attributes in the Business Data Standard data model is defined to identify any opportunities for optimisation in encodings that can accommodate that capability.

An example is where the primary key contains the values of Party\_Id and then Event\_Id. This implies that a single Party\_Id may have many Event\_Ids. Encodings that can accommodate optimisation can define the Party\_Id once and then under that have many Event\_Ids. For xml encoding, a single Party\_Id element node can be defined with an unbounded list under that node for the Event\_Ids. This reduces the amount of data redundancy.

### 4.2 Details of Optimisation specific to QE Fee Category

Due to the QE Fee Category model consisting of a single entity with a simple single attribute primary key, there is no opportunity for optimisation.

## 5 CHANGES FROM PREVIOUS VERSION

Remove element Currency\_Type

## 6 REFERENCES

The following references are specific to this Technical Data Standard:

- ESCS ISB Consolidated XML (XSD) Schema, version 6.1
- ESCS ISB Business Data Architecture Entity Relationship Diagram, version 12.2
- ESCS ISB XSD Content Model, version 1.6
- ESCS ISB, Business Data Standard, QE Fee Category

The following references apply to all Technical Data Standards:

- ESCS ISB Standards Overview and Context
- ESCS ISB “System“ Enterprise Architecture - Business Data Architecture
- ESCS ISB Business Data Architecture Data Types
- ESCS ISB BDA Data Architecture Modelling Standards
- ESCS ISB Management Process

## 7 NOTES

None.

## 8 COPYRIGHT NOTICE

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