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## DataTypeDictionaryType

*DataTypeDictionaries* are defined in Part 3. This *VariableType* is used as the type for the *DataTypeDictionaries*. There are no *References* specified for this *VariableType*. It is formally defined in Table 65.

Table 65 – DataTypeDictionaryType Definition

|  |  |
| --- | --- |
| **Attribute** | **Value** |
| BrowseName | DataTypeDictionaryType |
| IsAbstract | False |
| ValueRank | −1 (−1 = Scalar) |
| DataType | ByteString |
| **References** | **NodeClass** | **BrowseName**  | **DataType** | **TypeDefinition** | **ModellingRule** |
| Subtype of the BaseDataVariableType defined in 7.4. |
| HasProperty | Variable | DataTypeVersion | String | PropertyType | Optional |
| HasProperty | Variable | NamespaceUri | String | PropertyType | Optional |
| HasProperty | Variable | DataTypeIdMap | DataTypeIdMappingDataType [ ] | PropertyType | Optional |

The *Property* DataTypeVersion is defined in Part 3.

The NamespaceUri is the URI for the namespace described by the *Value Attribute* of the DataTypeDictionary. For UA Binary and XML encoding it shall match the TargetNamespace in the dictonary.

The *DataTypeIdMap* provides an array of mapping entries for all *DataTypes* contained in the dictonary. An entry for a *DataType* contains the name of the *DataType* in the dictonary, the *NodeId* of the *DataType* in the *AddressSpace* and the *NodeId* of the *DataType* encoding. If the *Property* is provided, it shall contain a complete list of all *Structure* *DataTypes* in the dictionary. A *Client* is able to collect the information contained in this Property by browsing the *DataType* and encoding *Nodes* but this *Property* provides an optimized way to get this information.

## DataTypeIdMappingDataType

This structure contains elements that describe the mapping of a data type name in a dictionary to its *DataType* and encoding *NodeIds*. Its elements are defined in Table 135.

Table 135 – DataTypeIdMappingDataType Structure

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| DataTypeIdMappingDataType | structure |  |
|  DataTypeName | String | Name of the DataType in the data type dictionary |
|  DataTypeNodeId | NodeId | NodeId of the DataType |
|  EncodingNodeId | NodeId | NodeId of the DataType encoding |

Its representation in the *AddressSpace* is defined in Table 136.

Table 136 – DataTypeIdMappingDataType Definition

|  |  |
| --- | --- |
| **Attributes** | **Value** |
| BrowseName | DataTypeIdMappingDataType |