# Feature Catalogue 'Test application schema'

**Version:**

n/a

**Date:**

n/a

**Scope:**

This feature catalogue ...

**Responsible organisation:**

interactive instruments GmbH

## Application schema: Test Schema

**Version:**

1.0

### DataType

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **DataType**   |  |  | | --- | --- | | **Title:** | DT | | **Definition:** | datatype definition | | **Type:** | Data type | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | boolean | | **Voidable:** | false | | **Multiplicity:** | 0..1 | | **Value type:** | Boolean | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | datatype | | **Definition:** | This is another data type. | | **Voidable:** | false | | **Multiplicity:** | 0..\* | | **Value type:** | DataType2 (data type) | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | string | | **Voidable:** | false | | **Multiplicity:** | 1..\* | | **Value type:** | CharacterString | |

### DataType2

|  |  |  |
| --- | --- | --- |
| **DataType2**   |  |  | | --- | --- | | **Type:** | Data type | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | integer | | **Voidable:** | false | | **Multiplicity:** | 0..1 | | **Value type:** | Integer | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | string | | **Voidable:** | false | | **Multiplicity:** | 1..\* | | **Value type:** | CharacterString | |
| **Constraint:**   |  |  | | --- | --- | | **Description:** | Applies to the following network elements: A,B,C,D,E | |
| **Constraint:**   |  |  | | --- | --- | | **Name:** | pattern | | **Description:** | This is the constraint description. | | **Expression:** | inv: self.string->exists(o | o.matches('[a-zA-Z0-9]+') ) | |

### FeatureType1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FeatureType1**   |  |  | | --- | --- | | **Definition:** | This is a feature type. | | **Type:** | Feature type | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | boolean | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Boolean | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | character | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Character | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | codelist | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | CodeList (code list) | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | datatype | | **Definition:** | This is a data type. | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | DataType (data type) | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | date | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Date | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | datetime | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | DateTime | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | decimal | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Decimal | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | enum | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Enumeration (enumeration) | | **Values** | |  |  | | --- | --- | | val1 | **1** | | val2 | **2** | | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | geometry | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | GM\_Point | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | integer | | **Definition:** | This is an integer. | | **Voidable:** | false | | **Multiplicity:** | 0..1 | | **Value type:** | Integer | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | length | | **Voidable:** | false | | **Multiplicity:** | 0..1 | | **Value type:** | Length | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | measure | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Measure | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | metadata | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | MD\_Metadata | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | number | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Number | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | real | | **Voidable:** | false | | **Multiplicity:** | 0..\* | | **Value type:** | Real | |
| **Association role**   |  |  | | --- | --- | | **Name:** | role2 | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | FeatureType2 (feature type) | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | secondgeometry | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | GM\_Surface | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | string | | **Definition:** | This is a string. | | **Voidable:** | false | | **Multiplicity:** | 1..\* | | **Value type:** | CharacterString | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | time | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Time | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | union | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | NilUnion (union data type) | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | uri | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | URI | |

### FeatureType2

|  |  |  |
| --- | --- | --- |
| **FeatureType2**   |  |  | | --- | --- | | **Type:** | Feature type | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | codelist | | **Voidable:** | true | | **Multiplicity:** | 1 | | **Value type:** | CodeList (code list) | |
| **Association role**   |  |  | | --- | --- | | **Name:** | role1 | | **Voidable:** | false | | **Multiplicity:** | 0..\* | | **Value type:** | FeatureType1 (feature type) | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | union | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Union (union data type) | |

### NilUnion

|  |  |  |
| --- | --- | --- |
| **NilUnion**   |  |  | | --- | --- | | **Type:** | Union type | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | reason | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | CharacterString | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | value | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | DataType2 (data type) | |

### Union

|  |  |  |
| --- | --- | --- |
| **Union**   |  |  | | --- | --- | | **Type:** | Union type | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | option1 | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Enumeration (enumeration) | | **Values** | |  |  | | --- | --- | | val1 | **1** | | val2 | **2** | | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | option2 | | **Voidable:** | false | | **Multiplicity:** | 1 | | **Value type:** | Integer | |
| **Attribute:**   |  |  | | --- | --- | | **Name:** | option3 | | **Voidable:** | false | | **Multiplicity:** | 0..\* | | **Value type:** | CharacterString | |