**Table I-1 Catalogue overview**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Name/Role name** | **Description** | **M/R/O** | **Cardinality** | **Domain** |
| 1 | BDC\_Catalogue | root entity which defines metadata about dataset resource | M | 1 | Line 2 to 11 |
| 2 | role: responsibleParty | responsible party information for the data catalogue | M | N | BDC\_ResponsibleParty |
| 3 | role: dataset | dataset information for the data catalogue | M | N | BDC\_Dataset |
| 4 | role: sourceDomain | source domain information for the data catalogue | M | 1 | BDC\_Domain |
| 5 | role: usageDomain | usage domain information for the data catalogue | R | N | BDC\_Domain |
| 6 | role: dataQuality | data quality information for the data catalogue | R | N | BDC\_DataQuality |
| 7 | role: record | record information for the data catalogue | R | N | BDC\_record |
| 8 | title | title of data catalogue | M | 1 | free text |
| 9 | description | a short introduction to data catalogue | M | 1 | free text |
| 10 | language | language used within the data catalogue | R | 1 | RFC 5646 |
| 11 | versionInfo | version of data catalogue specification | R | 1 | free text  MAJOR.MINOR.PATCH |

**Table I-2 Responsible party information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Name/Role name** | **Description** | **M/R/O** | **Cardinality** | **Domain** |
| 12 | BDC\_ResponsibleParty | name and position information for an individual or organization that is responsible for the data catalogue or dataset | M | N | Line 13 to 17 |
| 13 | indivisualName | name of the responsible person- surname, given name, title | M | 1 | free text |
| 14 | organizationName | name of the responsible organization | M | 1 | free text |
| 15 | positionName | role or position of the responsible person | M | 1 | free text |
| 16 | roleOrFunction | function performed by the responsible party | M | 1 | free text |
| 17 | contact | information required to enable contact with the responsible person and/or organization | R | N | BDC\_ContactType |
| 18 | BDC\_ContactType | information required to enable contact with the responsible person and/or organization | R | N | Line 19 to 22 |
| 19 | phoneNumber | telephone numbers at which the organization or individual may be contacted | R | N | free text |
| 20 | address | physical and email address at which the organization or individual may be contacted | R | 1 | free text |
| 21 | onlineResource | on-line information that can be used to contact the individual or organization | R | N | URI |
| 22 | hoursOfServices | time period (including time zone) when individuals can contact the organization or individual | R | 1 | free text |

**Table I-3 Dataset information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Name/Role name** | **Description** | **M/R/O** | **Cardinality** | **Domain** |
| 23 | BDC\_Dataset |  | M | N | Line 24 to 31 |
| 24 | role: contactPoint | contact point information for the dataset | R | N | BDC\_ResponsibleParty |
| 25 | role: distribution | information about the distributor of and options for obtaining the dataset | R | N | BDC\_Distribution |
| 26 | role: hasRelation | related dataset of the dataset | O | N | BDC\_Dataset |
| 27 | title | title of the dataset | M | 1 | free text |
| 28 | description | a short introduction to the dataset | M | 1 | free text |
| 29 | keyword | commonly used word(s) used to describe the dataset | R | N | free text |
| 30 | temporalCoverage | time period (including time zone) when the dataset was captured | O | 1 | free text |
| 31 | updateFrequency | rate of occurrence of dataset update | O | 1 | free text |

**Table I-4 Distribution information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 32 | BDC\_Distribution | information about the distributor of and options for obtaining the dataset | R | N | Line 33 to38 |
| 33 | role: dataRight | Information about limitation placed upon the use of the dataset | R | 1 | BDC\_DataRight |
| 34 | datatype | the type information of the dataset | M | 1 | BCD\_DataTypeCode |
| 35 | format | the format information of the dataset including a version | M | 1 | free text |
| 36 | byteSize | information about the size of dataset in bytes | M | 1 | int |
| 37 | accessInformation | access information to dataset | M | 1 | free text |
| 38 | sampleData | location information about a sample data including URL | R | N | URI |

**Table I-5 Data Right information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 39 | BDC\_DataRight | information about limitation placed upon the use of the dataset | R | 1 | Line 40 to 41 |
| 40 | rightStatement | information to the usage permissions being agreed to | R | 1 | free text |
| 41 | license | -설명필요 | R | N | URI |

**Table I-6 Domain information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Name/Role name** | **Description** | **M/R/O** | **Cardinality** | **Domain** |
| 41 | BDC\_Domain | source and/ or usage information for data catalogue | M | 1 | Line 42 to 43 |
| 42 | title | a member item of taxonomy which used for identifying the domain of source and /or usage | M | 1 | free text |
| 43 | taxonomy | taxonomy information including classification system and authority | M | N | URI |

**Table I-7 Data quality information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Name/Role name** | **Description** | **M/R/O** | **Cardinality** | **Domain** |
| 44 | BDC\_DataQuality | data quality information for the data catalogue | R | N | Line 45 to 47 |
| 45 | qualityRequirements | requirement statement for evaluating quality of dataset | M | N | free text |
| 46 | unitOfMeausre | standard unit or system of units by means of which a quantity is accounted for and expressed. | M | 1 | free text |
| 47 | qualityResult | the result of quality evaluation described by the unit of measure | M | 1 | free text |

**Table I-8 Catalogue record information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Name/Role name** | **Description** | **M/R/O** | **Cardinality** | **Domain** |
| 48 | BDC\_Record | record information for the data catalogue | R | N | Line 49 to 50 |
| 49 | modifiedDate | the most resent modified date of data catalogue | M | N | ISO-8601 |
| 50 | issuedDate | the issued date of listing the dataset in the catalogue | R | 1 | ISO-8601 |

**Table I-9 <<enumeration>> BDC\_DataTypeCode**

|  |  |  |
| --- | --- | --- |
| **Concept name** | **Domain code** | **Definition** |
| STRUCTURED | 001 | data that is organized in a format easily used by formatted repository |
| SEMI\_STRUCTURED | 002 | data that is neither raw data, nor typed data in a conventional database system (e.g. XML, JSON) |
| UNSTRUCTURED | 003 | data that either does not have a pre-defined data model or is not organized in a pre-defined manner |