

MIDS - Technical description

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Ressources

MIDS Task Group (Minimum Information about a Digital Specimen)

<https://github.com/tdwg/mids>

Charter for a Task Group of the Collections Descriptions (CD) Interest Group

<https://www.tdwg.org/community/cd/mids/>

Mailinglist

<https://lists.tdwg.org/mailman/listinfo/tdwg-mids>

MIDS Sample JSON+LD

Source: <https://github.com/AgentschapPlantentuinMeise/gbifmids/tree/main/schemas>

Schema Version 0.3:

```
{
  "schemaName" : "MIDS Calculator default",
  "schemaVersion" : "0.3",
  "Date" : "2022-02-23T14:32:43",
  "schemaType" : "MIDScalculator",
  "informationWithheld" : "",
  "unknownOrMissing" : [
    {
      "value" : "unknown: undigitized",
      "midsAchieved" : false
    },
    {
      "value" : "unknown",
      "midsAchieved" : false
    },
    {
      "value" : "",
      "midsAchieved" : false
    },
    {
      "value" : "ZZ",
      "property" : "countryCode",
      "midsAchieved" : false
    },
    {
      "value" : "Incertae sedis",
      "property" : "scientificName",
      "midsAchieved" : false
    },
    {
      "value" : "Unknown",
      "midsAchieved" : false
    }
  ]
}
```

```
    }
  ],
  "mids0" : {
    "Modified" : [{
      "property" : "modified",
      "metadata" : "additionalMetadata/metadata/gbif/dateStamp",
      "operator" : "OR"
    }],
    "PhysicalSpecimenID" : [{
      "property" : [
        "catalogNumber",
        "materialSampleID",
        "otherCatalogNumbers"
      ],
      "operator" : "OR"
    }],
    "Institution" : [{
      "property" : [
        "institutionCode",
        "institutionID"
      ],
      "operator" : "OR"
    }
  ]
},
"mids1" : {
  "Name" : [{
    "property" : [
      "scientificName",
      "vernacularName"
    ],
    "operator" : "OR"
  }],
  "MaterialType" : [{
    "property" : [
      "preparations",
      "basisOfRecord",
      "type"
    ],
    "operator" : "AND"
  }
}]
```

```
},
"mids2" : {
  "Location" : [
    {
      "property" : [
        "decimalLatitude",
        "decimalLongitude"
      ],
      "operator" : "AND"
    },
    {
      "property" : [
        "locality",
        "county",
        "verbatimLocality"
      ],
      "operator" : "OR"
    }
  ],
  "CollectorName" : [{
    "property" : [
      "recordedBy",
      "recordedByID"
    ],
    "operator" : "OR"
  }],
  "CollectorNumber" : [{
    "property" : [
      "fieldNumber",
      "recordNumber"
    ],
    "operator" : "OR"
  }],
  "CollectionDate" : [{
    "property" : [
      "eventDate",
      "year",
      "verbatimEventDate"
    ],
    "operator" : "OR"
  }],

```

```
    }],  
    "TypeStatus" : [{  
      "property" : "typeStatus"  
    }]  
  },  
  "mids3" : {  
    "Quality Assertions" : [{  
      "property" : "issue",  
      "operator" : "NOT"  
    }],  
    "AvailableImage" : [{  
      "property" : "mediaType"  
    }]  
  }  
}
```

MIDS Mapping

MIDS Mapping to ABCD

Source: <https://github.com/tdwg/mids/issues/64>

The [MIDS draft v1.16 from 2022-05-28](#) already has some mappings to ABCD terms, but it only has them to ABCD 3 and the mappings are incomplete and in some cases wrong. So we looked into the mappings a bit more and created the table below for the mappings between MIDS and both ABCD 3 (concept URI) and ABCD 2 (both concept URI and XPath).

I hope this helps with the alignment of MIDS and ABCD. Please let me know if you have any other questions.

Prefixes:

- abcd: = <http://rs.tdwg.org/abcd/terms/>
- abcd2: = <http://rs.tdwg.org/abcd2/terms/>

MIDS Term	ABCD 3 Term	ABCD 2 Term	ABCD 2 Xpath	Comment
Modified	abcd:DataSet with abcd:hasDateModified	abcd2:DataSet-DateModified	/DataSets/DataSet/Metadata/RevisionData/DateModified	
Modified	abcd:Unit with abcd:hasDateModified	abcd2:Unit-DateLastEdited	/DataSets/DataSet/Units/Unit/DateLastEdited	alternative modified date on record level
PhysicalSpecimenId	abcd:Unit with abcd:id	abcd2:UnitID	/DataSets/DataSet/Units/Unit/UnitID	
PhysicalSpecimenId	abcd:Unit with abcd:guid	abcd2:UnitGUID	/DataSets/DataSet/Units/Unit/UnitGUID	
Institution - Code	abcd:Unit abcd:sourceInstitutionID	abcd2:SourceInstitutionID	/DataSets/DataSet/Units/Unit/SourceInstitutionID	
Institution - Referent	abcd:DataSet with abcd:hasOwner (of class abcd:Person) with abcd:hasOrganization with abcd:guid	abcd2:DataSet-Owner-OrganisationGUID	/DataSets/DataSet/Metadata/Owners/Owner/Organisation/OrganisationGUID	has:Owner can both point to a person or an organization, if it is person, use has:Organization to get to the organization for its GUID

MIDS Term	ABCD 3 Term	ABCD 2 Term	ABCD 2 Xpath	Comment
Institution - Referent	abcd:DataSet with abcd:hasOwner (of class abcd:Organization) with abcd:guid			this is if the owner is the organization
Institution - Referent	abcd:Unit with abcd:hasOwner (of class abcd:Person) with abcd:hasOrganization with abcd:guid	abcd2:Unit-Owner- OrganisationGUID	/DataSets/DataSet/Un its/Unit/Owner/Organi sation/OrganisationG UID	alternative owner on the record level, again with both ways to get the Org GUID
Institution - Referent	abcd:Unit with abcd:hasOwner (of class abcd:Organization) with abcd:guid			
SpecimenType	abcd:Unit with abcd:hasRecordBasis	abcd2:RecordBasis	/DataSets/DataSet/Un its/Unit/RecordBasis	
ObjectType	abcd:Unit with abcd:kindOfUnit	abcd2:KindOfUnit	/DataSets/DataSet/Un its/Unit/KindOfUnit	
Name	abcd:ScientificName with abcd:fullScientificNa me	abcd2:TaxonIdentifie d- FullScientificNameStr ing	/DataSets/DataSet/Un its/Unit/Identifications /Identification/Result/ TaxonIdentified/Scien tificName/FullScientifi cNameString	
Name	abcd:IdentifiedTaxon with abcd:informalName	abcd2:TaxonIdentifie d- InformalNameString	/DataSets/DataSet/Un its/Unit/Identifications /Identification/Result/ TaxonIdentified/Infor malNameString	
Name	abcd: ZoologicalScientificN ame with abcd:namedIndividual	abcd2:TaxonIdentifie d-NamedIndividual	/DataSets/DataSet/Un its/Unit/Identifications /Identification/Result/ TaxonIdentified/Scien tificName/NameAtom ised/Zoological/Name dIndividual	
License	abcd:DataSet with abcd:hasLicense (of class abcd:LegalStatement)	abcd2:DataSet- License-Text	/DataSets/DataSet/M etadata/IPRStatemen ts/Licenses/License/T ext	

MIDS Term	ABCD 3 Term	ABCD 2 Term	ABCD 2 Xpath	Comment
License	abcd:Unit with abcd:hasLicense (of class abcd:LegalStatement)	abcd2:Unit-License- Text	/DataSets/DataSet/Units/Unit/IPRStatements/Licenses/License/Text	alternative license on record level
PreparationType	abcd:Preparation with abcd:preparationType	abcd2:SpecimenUnit- PreparationType	/DataSets/DataSet/Units/Unit/SpecimenUnits/Preparations/Preparation/PreparationType	