

# Changes from Version 1.2 to v. 1.3 of the ABCD schema

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## **General changes**

Separate (included) schemas now fulfil at least one of the following criteria:

- They represent a complex type that is used in several places in ABCD.
- They represent a complex type that may be re-used in other schemas.
- They contain a collection of types representing extensions for a specific collection domain.

## **Changes of elements**

(incl. attribute additions and changes in bounding and/or type of the element)

### **AcquisitionSourceText**

type changed from AltTextType to xs:string

attribute Language added

### **AccessionCatalogue**

type changed from OpenIDType to xs:string

### **AssemblageName**

renamed attribute of type extension from **Languge** to **Language**

### **AssociatedUnitID**

type changed from OpenIDType to xs:string

### **BiotopeText**

type changed from AltTextType to xs:string

attribute Language added

### **ChronstratigraphicTerms**

renamed to ChronostratigraphicTerms

### **Identification**

added attribute **NonFlag**

added attribute **Role**

### **IdentificationSource**

(in IdentificationType/Identifier/)

made bounded

Comment: The IdentificationSource is a reference that actually states the identification, i.e. the entire identification event was taken from literature (or a comparable source). The description of this element was confused with that of the IdentificationReference, which actually is a reference that further circumscribes the taxon identified by the identifier (and thus can act as a “potential taxon’s” ‘sec.’ reference).

### **ImageSize**

typed ImageSizeType

Comment: now only for pixel x pixel size. Filesize covered by new element.

### **ISO2Letter**

renamed to **ISO3166Code**

### **ISO3Letter**

deleted (NOTE: incorporated into **ISO3166Code**!)

### **LithstratigraphicTerms**

renamed to LithostratigraphicTerms

**MeasurementText**

renamed to **MeasurementText**

type changed from AltTextType to xs:string

attribute Language added

**NameAuthorYearString**

(in TaxonIdentifiedType)

renamed to **FullScientificNameString**

**PreviousCollectionName**

(in SpecimenUnit/SpecimenUnitHistory/.. / PreviousUnit/)

renamed to **PreviousSourceID**

**PreviousUnitID**

type changed from OpenIDType to xs:string

**ProvenanceCategory**

(in BotanicalGardenUnitType)

Added enumeration of ITF standard codes.

**Rank**

(in NameAtomised/Botanical)

assigned type RankAbbreviationType

**RecordBasis**

type changed from xs:string to RecordBasisType

**SortPersonName**

(in PersonNameType)

renamed to **PersonNameLastFirst**

**SourceInstitutionCode**

renamed to **SourceInstitutionID**.

**SourceName**

renamed to **SourceID**

**Strain**

(in NameBacterialType)

deleted (because it is not a name element under the respective Code of Nomenclature)

**StratigraphyText**

type changed from AltTextType to xs:string

attribute Language added

**TaxonIdentified**

made optional (because of introduction of alternative MaterialIdentified)

**UnitID**

type changed from OpenIDType to xs:string

## ***New elements***

SpecimenUnit/SpecimenUnitHistory/**PreviousUnits** (Wrapper for PreviousUnit)  
SpecimenUnit/SpecimenUnitHistory/**PreviousUnitsText**  
SpecimenUnit/SpecimenUnitHistory/PreviousUnits/**PreviousUnitText**  
SpecimenUnit/SpecimenUnitHistory/PreviousUnits/**PreviousSourceInstitutionID**  
CultureCollectionUnitType/**OrganismType**  
CultureCollectionUnitType/**InfrasubspecificName**  
CultureCollectionUnitType/**FormOfSupply**  
CultureCollectionUnitType/**Serovar**  
CultureCollectionUnitType/**Mutant**  
CultureCollectionUnitType/**Genotype**  
UnitCollectionDomain/**PlantGeneticResourcesUnit**  
**PGRUnitType/\***  
HerbariumUnitType/**DuplicatesDistributedTo**  
Identifications/./TaxonIdentified/**ScientificName**  
Identifications/Identification/**IdentificationMethod**  
Identifications/Identification/**MaterialIdentified**  
NameBacterialType/**NameApprobation**  
DateTimeType/**PeriodExplicit**  
ImageType/**ImageFileSize**  
**ImageSizeType/\***

## ***Simple types***

### **AltTextType**

deleted

Comment: The idea behind this type was to have a "consists of" relationship of the free text entry with the corresponding atomized data items. At least in the present phase of standard development this seems to be overly prescriptive, furthermore, xml does not support this kind of relationship between elements.

### **OpenIDType**

deleted

### **PGRUnitType/\***

created

### **RankAbbreviationType**

created

enumeration added

### **RankType**

renamed to **HigherTaxonRankType**

enumeration added

Comment: The type is used for the attribute of HigherTaxonType, i.e. taxon names of a rank above generic level.

### **RecordBasisType**

created

enumeration added

## ***Complex types***

### **AgentType**

removed

Comment: AgentType was used only once (for GatheringAgent) and actually consisted only of a combination of two other complex types (PersonNameType and OrganisationType) with a free text field. It is thus superfluous and has been removed. The elements were moved into a sequence under GatheringAgent; the type extension for PrimaryCollectorFlag became a simple attribute of the element GatheringAgent.

### **PGRUnitType**

added

### **IdentificationType**

Identifier/IdentificationSource made bounded.

### **TaxonIdentifiedType**

Rearrangement of elements:

Unchanged: InformalNameString and HigherTaxa

All other elements rearranged under an added **CHOICE** between InformalNameString (unchanged element) and the added element **ScientificName**. Further elements formerly arranged in sequence under TaxonIdentifiedType are now in sequence under ScientificName, namely:

- NameAuthorYearString (now renamed FullScientificNameString)
- ScientificNameString
- AuthorString
- NameAddendum
- NameAtomized (entire container)
- IdentificationQualifier

FullScientificNameString is now mandatory.

Comment: The arrangement allows to make FullScientificNameString mandatory if (and only if) a scientific name is given as the result of an identification event.

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