

XML schema files version 2.2

Timeline	Proposal ready: 31 Aug 2019	XSD public review 01 Sep 2019 - 30 Sep 2019	Communication period Implementation / testing 15 Oct 2019 - 30 Nov 2019	Release Date Staging: Nov, 22th, 2019 Prod: Dec, 16th, 2019	Planned Retire Date 31st, Oct, 2023
Status	1. Preparation 2. Draft 3. Discussion 4. Public review 5. Implementation 6. Release				



The WMDA data-upload production is now with XSD 2.2 supported from 16 Dec 2019

Till Nov, 2020, as there are only 40% of organization moved to XSD 2.2, WMDA data-upload decide to keep support XSD 2.1 till Oct, 31st, 2021.

Organizations can upgrade to XSD 2.2 as planned which will now be supported till Oct, 31st, 2023, or plan to update to XSD 2.3 after Q1, 2021.

Download XSD version 2.2 :

FINAL

The files below are officially approved by the Datadictionary Technical XML group.

All questions regarding this version can be asked here : <https://share.wmda.info/questions/topics/341344265/xsdv22>

File	Modified
File Inventories.xsd Version 2.2	Dec 04, 2019 by Zhihong He
File basicTypes.xsd Version 2.2	Dec 04, 2019 by Zhihong He
XML File ION-1234-C-XSD22.xml	Jul 21, 2022 by Zhihong He
XML File ION-1234-D-XSD22.xml	Jul 21, 2022 by Zhihong He

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Changes between version 2.1 and 2.2

- [Changes between version 2.1 and 2.2](#)
 - [Encoding should be included](#)
 - [Updated version number to 2.2](#)
 - [Updated GRID/ID rules](#)
 - [Changed Bank identifiers](#)
 - [Updated documentation on GRID](#)
 - [Updated CMV elements \(RFC-001S Distinguish different CMV/HIV tests \(ANTI-vs. PCR\)#/ \)](#)

Encoding should be included

- `<?xml version="1.0" encoding="UTF-8" ?>`

Updated version number to 2.2

Inventories.xsd
<div>Version 2.1</div> <div><pre><xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified" version="2.1"></pre></div> <div><ul style="list-style-type: none">• Update version number to 2.2</div> <div>Version 2.2</div> <div><pre><xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified" version="2.2"></pre></div>

Updated GRID/ID rules

Inventories.xsd

version 2.1

```
<xs:element name="ID">
  <xs:annotation>
    <xs:documentation xml:lang="en">Unique identifier of the donor/CBU:
The value comprises the EMDIS hub code + donor identification allocated by the associated donor registry,
where the sending organisation is an EMDIS member, otherwise the two digit ISO country code of the associated
donor registry + donor identification allocated by the associated donor registry. For example: AU600196166,
DEGOE-35487, US087013165, SB45</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="17"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

- Changed ID to 'optional'.
- Business rules state : DONOR records should have grid, and optional ID. CBU records should have ID, and no GRID.
- Changed length to 25 chars

Please note that in a future version (2.3) the GRID and ID will move to another location in the XML file.

Version 2.2

```
<xs:element name="ID" minOccurs="0">
  <xs:annotation>
    <xs:documentation xml:lang="en">Unique identifier of the donor/CBU:
The value comprises the EMDIS hub code + donor identification allocated by the associated donor registry,
where the sending organisation is an EMDIS member, otherwise the two digit ISO country code of the associated
donor registry + donor identification allocated by the associated donor registry. For example: AU600196166,
DEGOE-35487, US087013165, SB45. Please note that in version 2.3 the position of this element may change. WMDA
rule states: donor records must have GRID, and optional ID. CBU records must have ID, and may not have GRID<
/xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="25"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

Changed Bank identifiers

Inventories.xsd

Version 2.1

```
<xs:element name="BANK_DISTRIB_ID" minOccurs="0">
  <xs:annotation>
    <xs:documentation xml:lang="en">Unique identifier of
the CBB distributing the CBU: : The value comprises the EMDIS hub code + id allocated by the associated EMDIS
hub, where the cord registry is an EMDIS member, otherwise the two digit ISO country code of the associated
cord registry + id identification allocated by the associated cord registry. For example: AUCBB1, SB890</xs:
documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="10"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

- Both elements **BANK_MANUF_ID** and **BANK_DISTRIB_ID** may not hold content anymore
- Added 2 optional attributes to provide EMDIS id or WMDA id.
- Providing both attributes is recommended
- Suggested fieldname handling : **BANK_MANUF_ID_WMDA**, **BANK_MANUF_ID_EMDIS**, **BANK_DISTRIB_ID_WMDA** and **BANK_DISTRIB_ID_EMDIS**

Version 2.2

```
<xs:element name="BANK_DISTRIB_ID" minOccurs="0">
  <xs:annotation>
    <xs:documentation xml:lang="en">Unique identifier of the CBB distributing the CBU: : In the EMDIS
context the value comprises the EMDIS hub code + id allocated by the associated EMDIS hub, where the cord
registry is an EMDIS member, otherwise the two digit ISO country code of the associated cord registry + id
identification allocated by the associated cord registry. For example: AUCBB1, SB890. In the WMDA context
this is the WO-number as assigned by WMDA.</xs:documentation>
  </xs:annotation>
  <!-- @v2.2 : added 2 optional attributes to provide EMDIS and/or WMDA identifiers.-->
  <xs:complexType>
    <xs:attribute name="EMDIS" type="cbBankIdType" use="optional"/>
    <xs:attribute name="WMDA" type="cbBankIdType" use="optional"/>
  </xs:complexType>
</xs:element>
```

Additionally a new simpleType *bareBankIdType* has been defined in basicTypes

```
<xs:simpleType name="cbBankIdType">
  <!-- @v2.2 added -->
  <xs:annotation>
    <xs:documentation xml:lang="en">Bank ID type (CBB)</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:maxLength value="10"/>
  </xs:restriction>
</xs:simpleType>
```

Examples that are valid using new XSD 2.2 schema. Any line below is valid for **BANK_MANUF_ID**, the same for **BANK_DISTRIB_ID**:

```

<BANK_MANUF_ID WMDA="3847" EMDIS="EN-38" />
<BANK_MANUF_ID EMDIS="EN-38" />
<BANK_MANUF_ID WMDA="3847" />
<BANK_MANUF_ID WMDA="3847" EMDIS="EN-38"></BANK_MANUF_ID>
<BANK_MANUF_ID></BANK_MANUF_ID>
<BANK_MANUF_ID />

```

Updated documentation on GRID

Inventories.xsd

```

<xs:element name="GRID" minOccurs="0" >
  <xs:annotation>
    <xs:documentation xml:lang="en">Global registration identifier of the
donor/CBU.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:length value="19"/>
    </xs:restriction>
  </xs:simpleType>

```

- Updated documentation
- Please note that in version 2.3 the position of this element may change

```

<xs:element name="GRID" minOccurs="0" >
  <xs:annotation>
    <xs:documentation xml:lang="en">Global registration identifier of the
donor. This element is required for Donors.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:length value="19"/>
    </xs:restriction>
  </xs:simpleType>

```

Updated CMV elements ([RFC-001S Distinguish different CMV/HIV tests \(ANTI-vs. PCR\)##](#))

- Renamed CMV to ANTI_CMV
- Renamed CMV_DATE to ANTI_CMV_DATE and changed order to be after ANTI_CMV
- Added CMV_NAT_DATE
- The changes above effect CMV fields for DONOR, CBU, and CBU Maternal

XSD 2.1

XSD 2.2

```

<xs:complexType name="idmType">
  <xs:annotation>
    <xs:documentation xml:lang="
en">Infectious disease markers (IDM) and other
relevant tests</xs:documentation>
  </xs:annotation>
  <xs:sequence>

    <xs:element name="CMV" type="
idmValueExtType" minOccurs="0">
      <xs:annotation>
        <xs:
documentation xml:lang="en">CMV status</xs:
documentation>
      </xs:annotation>
    </xs:element>

    <xs:element name="CMV_NAT"
type="idmValueType" minOccurs="0">
      <xs:annotation>
        <xs:
documentation xml:lang="en">CMV NAT status</xs:
documentation>
      </xs:annotation>
    </xs:element>

    <xs:element name="CMV_DATE"
type="bareDateType" minOccurs="0">
      <xs:annotation>
        <xs:
documentation xml:lang="en">Date of CMV test</xs:
documentation>
      </xs:annotation>
    </xs:element>

```

```

<xs:complexType name="idmType">
  <xs:annotation>
    <xs:documentation xml:lang="
en">Infectious disease markers (IDM) and other
relevant tests</xs:documentation>
  </xs:annotation>
  <xs:sequence>

    <!-- @v2.2:changed CMV to
ANTI_CMV -->
    <xs:element name="ANTI_CMV"
type="idmValueExtType" minOccurs="0">
      <xs:annotation>
        <xs:
documentation xml:lang="en">CMV antibody status</xs:
documentation>
      </xs:annotation>
    </xs:element>

    <!-- @v2.2:changed CMV_DATE
to ANTI_CMV_DATE and changed order to be after
ANTI_CMV -->
    <xs:element name="
ANTI_CMV_DATE" type="bareDateType" minOccurs="0">
      <xs:annotation>
        <xs:
documentation xml:lang="en">Date of CMV antibody
test</xs:documentation>
      </xs:annotation>
    </xs:element>

    <xs:element name="CMV_NAT"
type="idmValueType" minOccurs="0">
      <xs:annotation>
        <xs:
documentation xml:lang="en">CMV NAT status</xs:
documentation>
      </xs:annotation>
    </xs:element>

    <!-- @v2.2:added
CMV_NAT_DATE -->
    <xs:element name="
CMV_NAT_DATE" type="bareDateType" minOccurs="0">
      <xs:annotation>
        <xs:
documentation xml:lang="en">Date of CMV NAT status
test</xs:documentation>
      </xs:annotation>
    </xs:element>

```