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**Exchange of processed data between
qualitative data analysis software packages**

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Foreword

The Rotterdam Exchange Format Initiative (REFI), responsible for the interoperability standard described in this document, originated in September 2016 as a result of the KWALON Conference: [Reflecting on the Future of QDA Software](#), held at Erasmus University Rotterdam. Software developers attending the conference agreed to work together in developing an exchange format, thus enabling users of such software in the future to migrate their research project between software packages.

Soon afterwards a group was formed, consisting of representatives/CEO's of the following software packages: ATLAS.ti, Dedoose, f4analyse, MAXQDA, NVivo, QDA Miner, Quirkos and Transana. This *developer group* was complemented with a *coordination group*, consisting of the following expert users/software trainers: Jeanine Evers (chair), Kristi Jackson, Christina Silver, and experts on exchange/standardization: Fred van Blommestein, Elias Rizkallah and Yves Marcoux. The coordination group coordinates and facilitates the process of working on the standard by preparing, organizing and documenting meetings, applying for funding, disseminating results and publishing the standard.

The developer group and the coordination group together form the so-called 1st ring, working on developing the interoperability standard by meeting both online and live, and communicating in-between via specific online forums. At the time of writing, a data model has been created and transferred into an XML schema, user stories have been written, and standards for exchanging a codebook from one software to another, and a project from one software to another, have been published.

More information on this project can be found on <http://www.qdasoftware.org/>.

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Introduction

Users of qualitative data analysis (QDA) software (collectively known as CAQDAS or QDAS packages) have the need to exchange their project data between different software packages. The following reasons and requirements for such an exchange have been identified:

- Users may need to change to another software for reasons out of their control (funding, new employer or other mandates).
- Users may not want to be locked in a specific QDA Software solution.
- Users may want to use different types of analysis/output/representation/visualization features that are available in one software but not another on the same dataset.
- Users may want to use one software to code because of an intuitive interface and another for analysis because of the features available.
- Users may want to verify the results generated through the use of one software within another software.
- Different colleagues may use different software packages and cooperate on the same project.
- Users want the exchange format to take along the data they might have in their project, e.g. textual data in different formats, photos, audio, video, social media data and webpages, all in their original layout.
- Users may want to be able to exchange the following information between software packages:
 - Data that they are using in their project (e.g., text, audio, video, images)
 - Coding structure
 - Coded segments (modifiable)
 - Nominal, ordinal and interval value data
 - Subgroups or sets of items
 - Memos/journals
 - Searches/Queries
 - Visualizations
 - Links
- Teachers may want to allow students to choose their preferred software and having them work on a single sample project.
- Teachers may want to provide a concrete example of why they recommend software X for methodology A and software Y for methodology B.
- Each QDA Software package has its own particular strengths. Users often need to be able to undertake an analytic task which is not supported by their chosen product, or is enabled in a more appropriate way for their needs in another product.
- Users may need to be able to exchange codebooks between software packages.

1 Scope

The purpose of this standard is to enable users of QDA Software to exchange analysis work between packages. Representatives from ATLAS.ti, f4analyse, NVivo, QDA Miner, Quirkos and Transana have been involved in drafting the standard. However, the standard will be freely available and therefore other software will be able to use it once it is published.

Not all features of all QDA Software are supported in this standard. The rule-of-thumb was that at least two software packages should support a particular feature for it to be supported in the exchange standard.

As not all features are supported by all software packages, roundtripping (i.e. being able to send the project back to the original software package after exchange) may not work without data loss. This issue has not been addressed in this version of the standard.

Although the exchange format can be useful for archiving research projects, the focus in developing the standard was only on exchange.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application.

W3C XML Schema Parts 0,1 and 2 <https://www.w3.org/TR/xmlschema-0/>,
<https://www.w3.org/TR/xmlschema-1/>, <https://www.w3.org/TR/xmlschema-2/>

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Case

Instances of subjects, objects or topics by which sources and selections can be grouped. For example a person that was interviewed multiple times or a department within an organisation. A case can have variables, e.g. the age of the person or the name of the department.

3.2 Code

A short text label or tag that can be attached to a source or selection. Codes can be children of other codes (hierarchical structure). Codes may have a color and a description. Codes can be linked to other codes.

3.3 Codebook

The set of codes and code sets used in a project or a number of projects.

3.4 Coding

The application of a code to a codable object (e.g. a source or selection).

3.5 Edge

The line between two vertexes. The line can have a name, a color, a style and a direction meaning (association, one-way or bi-directional).

3.6 Graph

A visualisation consisting of vertexes (shapes) and edges (lines between shapes).

3.7 GUID

A 128-bit integer number used to identify resources (elements, objects). A GUID is globally unique.

3.8 Link

A relation between two identified elements or objects. A link can have a direction meaning (association, one-way or bi-directional).

3.9 Note

A free text comment made by the user on a project, source, selection or code. A note is a text source.

3.10 Project

Container for the artefacts described in this document. A project has metadata such as a name and a description.

3.11 Representation

The plain text form of a formatted text (PDF or DOCX) source or selection.

3.12 Selection

An identified part of a source. For plain text sources the selection is defined by the first and the last character. For formatted text sources the selection is defined as a selection in the plain text representation of the source. In a picture the selection is a rectangular part of the picture. In an audio or video file the selection is defined by the start and end timestamps.

3.13 Set

A named collection of sources, codes and/or notes.

3.14 Source

Data files used in the project. Files can be of different types, i.e. plain text or formatted (PDF or DOCX), videos, photographs, images or audio files.

3.15 Syncpoint

The association of a point in time in an audio or video source, and the textual position in a transcription of the audio or video.

3.16 Transcription

A textual representation of an audio or video source or part thereof.

3.17 User

A person who has worked on a project. A user may have a name and an identifier.

3.18 Variable

A named attribute of a case or a source with a value. A variable value can be textual, numerical or boolean or it can be a date or date-time.

3.19 Vertex

A named shape that is a part of a graph. A vertex can have a position, a size and a shape type (e.g. Person, Oval, Rectangle, Star, Triangle or Note) and a represented entity.

4 Qualitative Data Exchange

4.1 Introduction

Researchers working across disciplines around the globe use Qualitative Data Analysis (QDA) Software to review literature and analyze empirical and/or secondary data. To that end, they create a **'project'** in their chosen QDA Software and import **'sources'** into it in order to work them within the software. Working with sources typically involves: making **'selections'** within sources, linking selections to **'codes'** and annotating selections by creating **'notes'**, either as stand-alone items, or by linking them to sources, codes, and selections. Codes, notes and sources may be organized into **'sets'**, and sources can be organized into **'cases'** that can be associated with different types of **variables** (Boolean, textual, integer, float, date or datetime). Note that this description relates to the exchange format and is not a general explanation of what qualitative data analysis is or what software can do.

4.2 Process

The process of exchanging codebooks and projects between software packages is illustrated in figure 1. A user (researcher) triggers a function in a software package (software package A) to export a codebook or project. The software then generates a file that can be stored and/or exchanged. A user then triggers an import function in another software package (software package B). That software then imports and interprets the file and shows it to the user as a native codebook or project.

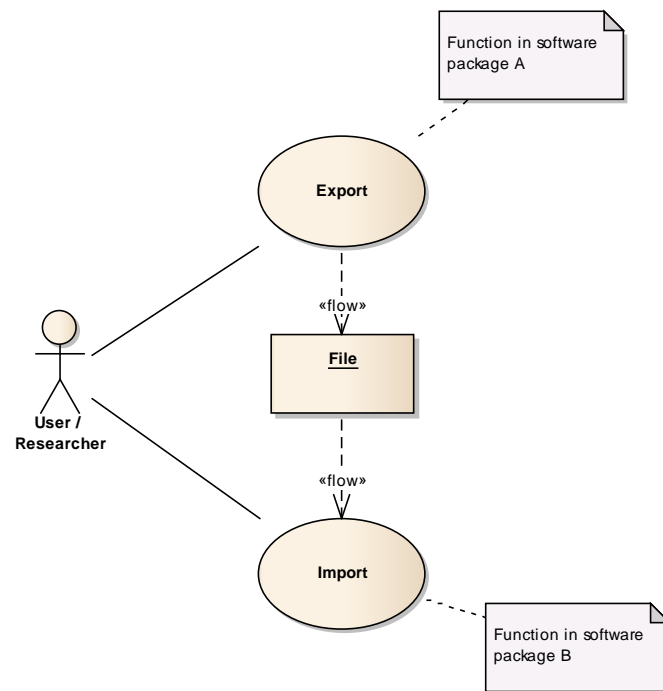


Figure 1. Exporting and importing

4.3 Data model

The exchange of processed qualitative data between QDA software packages is based on the data model, shown in figure 2.

4.4 Exchanging codebooks

Codebook exchanges are based on the data model subset, shown in figure 3.

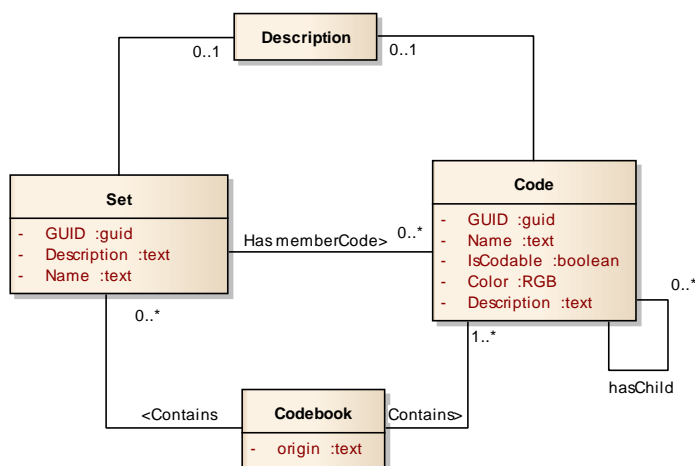


Figure 3. Data model for code book exchanges

5 XML representation

5.1 Introduction

The XML schemas that define the structure of the XML files to be exchanged are designed according to the "Venetian Blind" design principles. This means that each element is defined as an independent type. The elements can then be reused in different message types and parent elements. The namespaces are hidden, so readability is improved.

The QDA-XML standard defines two XML schema files: an XML schema for codebook exchanges and an XML schema for project exchanges.

The XML is UTF-8 encoded.

5.2 XML Schema for codebook exchange

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="urn:QDA-XML:codebook:1.0" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="urn:QDA-XML:codebook:1.0" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="1.0">

  <!-- ===== Element Declarations ===== -->
  <xsd:element name="CodeBook" type="CodeBookType">
    <xsd:annotation>
      <xsd:documentation>This element MUST be conveyed as the root element in any instance
document based on this Schema expression</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <!-- ===== Type Definitions ===== -->
  <xsd:complexType name="CodeBookType">
    <xsd:sequence>
      <xsd:element name="Codes" type="CodesType"/>
    </xsd:sequence>
  </xsd:complexType>

```

QDAS-XML

```
        <xsd:element name="Sets" type="SetsType" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="origin" type="xsd:string"/>
</xsd:complexType>
<xsd:complexType name="CodesType">
    <xsd:sequence>
        <xsd:element name="Code" type="CodeType" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="SetsType">
    <xsd:sequence>
        <xsd:element name="Set" type="SetType" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CodeType">
    <xsd:sequence>
        <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
        <xsd:element name="Code" type="CodeType" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="name" type="xsd:string" use="required"/>
    <xsd:attribute name="isCodable" type="xsd:boolean" use="required"/>
    <xsd:attribute name="color" type="RGBType"/>
</xsd:complexType>
<xsd:complexType name="SetType">
    <xsd:sequence>
        <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
        <xsd:element name="MemberCode" type="MemberCodeType" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="name" type="xsd:string" use="required"/>
</xsd:complexType>
<xsd:complexType name="MemberCodeType">
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
</xsd:complexType>
<xsd:simpleType name="GUIDType">
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="([0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-
9a-fA-F]{12})|(\{[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\})"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="RGBType">
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="#([A-Fa-f0-9]{6}|[A-Fa-f0-9]{3})"/>
    </xsd:restriction>
</xsd:simpleType>
</xsd:schema>
```

The schema can be accessed online at

<http://schema.qdasoftware.org/versions/Codebook/v1.0/Codebook.xsd>

5.3 XML Schema for project exchange

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XMLSpy v2005 rel. 3 U (http://www.altova.com) by Fred van Blommestein -->
<!--
Library:           QDA-XML version 1.0
Release Date:     18 March 2019
Module:          Project.xsd
-->
<xsd:schema xmlns="urn:QDA-XML:project:1.0" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="urn:QDA-XML:project:1.0" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="1.0">
  <!-- ===== Element Declarations ===== -->
  <xsd:element name="Project" type="ProjectType">
    <xsd:annotation>
      <xsd:documentation>This element MUST be conveyed as the root element in any instance
document based on this Schema expression</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <!-- ===== Type Definitions ===== -->
  <xsd:complexType name="ProjectType">
    <xsd:sequence>
      <xsd:element name="Users" type="UsersType" minOccurs="0"/>
      <xsd:element name="CodeBook" type="CodeBookType" minOccurs="0"/>
      <xsd:element name="Variables" type="VariablesType" minOccurs="0"/>
      <xsd:element name="Cases" type="CasesType" minOccurs="0"/>
      <xsd:element name="Sources" type="SourcesType" minOccurs="0"/>
      <xsd:element name="Notes" type="NotesType" minOccurs="0"/>
      <xsd:element name="Links" type="LinksType" minOccurs="0"/>
      <xsd:element name="Sets" type="SetsType" minOccurs="0"/>
      <xsd:element name="Graphs" type="GraphsType" minOccurs="0"/>
      <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
      <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
      <!-- Note(s) that apply to the project as a whole -->
    </xsd:sequence>
    <xsd:attribute name="name" type="xsd:string" use="required"/>
    <xsd:attribute name="origin" type="xsd:string"/>
    <xsd:attribute name="creatingUserGUID" type="GUIDType"/>
    <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
    <xsd:attribute name="modifyingUserGUID" type="GUIDType"/>
    <xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
    <xsd:attribute name="basePath" type="xsd:string"/>
  </xsd:complexType>
  <xsd:complexType name="UsersType">
    <xsd:sequence>
      <xsd:element name="User" type="UserType" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="UserType">
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="name" type="xsd:string"/>
    <xsd:attribute name="id" type="xsd:string"/>
  </xsd:complexType>
  <xsd:complexType name="CodeBookType">
    <xsd:sequence>
      <xsd:element name="Codes" type="CodesType"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="CodesType">
    <xsd:sequence>
      <xsd:element name="Code" type="CodeType" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

```

```

</xsd:complexType>
<xsd:complexType name="CodeType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="Code" type="CodeType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="name" type="xsd:string" use="required"/>
  <xsd:attribute name="isCodable" type="xsd:boolean" use="required"/>
  <xsd:attribute name="color" type="RGBType"/>
</xsd:complexType>
<xsd:complexType name="CasesType">
  <xsd:sequence>
    <xsd:element name="Case" type="CaseType" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CaseType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="CodeRef" type="CodeRefType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="VariableValue" type="VariableValueType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="SourceRef" type="SourceRefType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="SelectionRef" type="SelectionRefType" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="name" type="xsd:string"/>
</xsd:complexType>
<xsd:complexType name="VariablesType">
  <xsd:sequence>
    <xsd:element name="Variable" type="VariableType" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="VariableType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="name" type="xsd:string" use="required"/>
  <xsd:attribute name="typeOfVariable" type="typeOfVariableType" use="required"/>
</xsd:complexType>
<xsd:complexType name="VariableValueType">
  <xsd:sequence>
    <xsd:element name="VariableRef" type="VariableRefType"/>
    <xsd:choice>
      <xsd:element name="TextValue" type="xsd:string" minOccurs="0"/>
      <xsd:element name="BooleanValue" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="IntegerValue" type="xsd:integer" minOccurs="0"/>
      <xsd:element name="FloatValue" type="xsd:decimal" minOccurs="0"/>
      <xsd:element name="DateValue" type="xsd:date" minOccurs="0"/>
      <xsd:element name="DateTimeValue" type="xsd:dateTime" minOccurs="0"/>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="SetsType">
  <xsd:sequence>
    <xsd:element name="Set" type="SetType" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="SetType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>

```

```

        <xsd:element name="MemberCode" type="CodeRefType" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element name="MemberSource" type="SourceRefType" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element name="MemberNote" type="NoteRefType" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="name" type="xsd:string" use="required"/>
</xsd:complexType>
<xsd:complexType name="SourcesType">
    <xsd:choice maxOccurs="unbounded">
        <xsd:element name="TextSource" type="TextSourceType"/>
        <xsd:element name="PictureSource" type="PictureSourceType"/>
        <xsd:element name="PDFSource" type="PDFSourceType"/>
        <xsd:element name="AudioSource" type="AudioSourceType"/>
        <xsd:element name="VideoSource" type="VideoSourceType"/>
    </xsd:choice>
</xsd:complexType>
<xsd:complexType name="TextSourceType">
    <xsd:sequence>
        <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
        <xsd:element name="PlainTextContent" type="xsd:string" minOccurs="0"/>
        <xsd:element name="PlainTextSelection" type="PlainTextSelectionType" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="VariableValue" type="VariableValueType" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="name" type="xsd:string"/>
    <xsd:attribute name="richTextPath" type="xsd:string"/>
    <xsd:attribute name="plainTextPath" type="xsd:string"/>
    <xsd:attribute name="creatingUser" type="GUIDType"/>
    <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
    <xsd:attribute name="modifyingUser" type="GUIDType"/>
    <xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
    <!-- Either PlainTextContent or plainTextPath MUST be filled, not both -->
</xsd:complexType>
<xsd:complexType name="PlainTextSelectionType">
    <xsd:sequence>
        <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
        <xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="name" type="xsd:string"/>
    <xsd:attribute name="startPosition" type="xsd:integer" use="required"/>
    <xsd:attribute name="endPosition" type="xsd:integer" use="required"/>
    <xsd:attribute name="creatingUser" type="GUIDType"/>
    <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
    <xsd:attribute name="modifyingUser" type="GUIDType"/>
    <xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="PictureSourceType">
    <xsd:sequence>
        <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
        <xsd:element name="TextDescription" type="TextSourceType" minOccurs="0"/>
        <xsd:element name="PictureSelection" type="PictureSelectionType" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element name="VariableValue" type="VariableValueType" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>

```

```

</xsd:sequence>
<xsd:attribute name="guid" type="GUIDType" use="required"/>
<xsd:attribute name="name" type="xsd:string"/>
<xsd:attribute name="path" type="xsd:string"/>
<xsd:attribute name="currentPath" type="xsd:string"/>
<xsd:attribute name="creatingUser" type="GUIDType"/>
<xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
<xsd:attribute name="modifyingUser" type="GUIDType"/>
<xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="PictureSelectionType">
<xsd:sequence>
<xsd:element name="Description" type="xsd:string" minOccurs="0"/>
<xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
<xsd:attribute name="guid" type="GUIDType" use="required"/>
<xsd:attribute name="name" type="xsd:string"/>
<xsd:attribute name="firstX" type="xsd:integer" use="required"/>
<xsd:attribute name="firstY" type="xsd:integer" use="required"/>
<xsd:attribute name="secondX" type="xsd:integer" use="required"/>
<xsd:attribute name="secondY" type="xsd:integer" use="required"/>
<xsd:attribute name="creatingUser" type="GUIDType"/>
<xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
<xsd:attribute name="modifyingUser" type="GUIDType"/>
<xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="PDFSourceType">
<xsd:sequence>
<xsd:element name="Description" type="xsd:string" minOccurs="0"/>
<xsd:element name="PDFSelection" type="PDFSelectionType" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="Representation" type="TextSourceType" minOccurs="0"/>
<xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="VariableValue" type="VariableValueType" minOccurs="0"
maxOccurs="unbounded"/>
</xsd:sequence>
<xsd:attribute name="guid" type="GUIDType" use="required"/>
<xsd:attribute name="name" type="xsd:string"/>
<xsd:attribute name="path" type="xsd:string"/>
<xsd:attribute name="currentPath" type="xsd:string"/>
<xsd:attribute name="creatingUser" type="GUIDType"/>
<xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
<xsd:attribute name="modifyingUser" type="GUIDType"/>
<xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="PDFSelectionType">
<xsd:sequence>
<xsd:element name="Description" type="xsd:string" minOccurs="0"/>
<xsd:element name="Representation" type="TextSourceType" minOccurs="0"/>
<xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
<xsd:attribute name="guid" type="GUIDType" use="required"/>
<xsd:attribute name="name" type="xsd:string"/>
<xsd:attribute name="page" type="xsd:integer" use="required"/>
<xsd:attribute name="firstX" type="xsd:integer" use="required"/>
<xsd:attribute name="firstY" type="xsd:integer" use="required"/>
<xsd:attribute name="secondX" type="xsd:integer" use="required"/>
<xsd:attribute name="secondY" type="xsd:integer" use="required"/>
<xsd:attribute name="creatingUser" type="GUIDType"/>
<xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
<xsd:attribute name="modifyingUser" type="GUIDType"/>
<xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>

```



```

</xsd:complexType>
<xsd:complexType name="AudioSourceType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="Transcript" type="TranscriptType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="AudioSelection" type="AudioSelectionType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="VariableValue" type="VariableValueType" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="name" type="xsd:string"/>
  <xsd:attribute name="path" type="xsd:string"/>
  <xsd:attribute name="currentPath" type="xsd:string"/>
  <xsd:attribute name="creatingUser" type="GUIDType"/>
  <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
  <xsd:attribute name="modifyingUser" type="GUIDType"/>
  <xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="AudioSelectionType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="name" type="xsd:string"/>
  <xsd:attribute name="begin" type="xsd:integer" use="required"/>
  <xsd:attribute name="end" type="xsd:integer" use="required"/>
  <xsd:attribute name="creatingUser" type="GUIDType"/>
  <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
  <xsd:attribute name="modifyingUser" type="GUIDType"/>
  <xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="VideoSourceType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="Transcript" type="TranscriptType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VideoSelection" type="VideoSelectionType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="VariableValue" type="VariableValueType" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="name" type="xsd:string"/>
  <xsd:attribute name="path" type="xsd:string"/>
  <xsd:attribute name="currentPath" type="xsd:string"/>
  <xsd:attribute name="creatingUser" type="GUIDType"/>
  <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
  <xsd:attribute name="modifyingUser" type="GUIDType"/>
  <xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="VideoSelectionType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>

```

```

<xsd:attribute name="name" type="xsd:string"/>
<xsd:attribute name="begin" type="xsd:integer" use="required"/>
<xsd:attribute name="end" type="xsd:integer" use="required"/>
<xsd:attribute name="creatingUser" type="GUIDType"/>
<xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
<xsd:attribute name="modifyingUser" type="GUIDType"/>
<xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="TranscriptType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="PlainTextContent" type="xsd:string" minOccurs="0"/>
    <xsd:element name="SyncPoint" type="SyncPointType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="TranscriptSelection" type="TranscriptSelectionType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="name" type="xsd:string"/>
  <xsd:attribute name="richTextPath" type="xsd:string"/>
  <xsd:attribute name="plainTextPath" type="xsd:string"/>
  <xsd:attribute name="creatingUser" type="GUIDType"/>
  <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
  <xsd:attribute name="modifyingUser" type="GUIDType"/>
  <xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
  <!-- Either PlainTextContent or plainTextPath MUST be filled, not both -->
</xsd:complexType>
<xsd:complexType name="TranscriptSelectionType">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="Coding" type="CodingType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="name" type="xsd:string"/>
  <xsd:attribute name="fromSyncPoint" type="GUIDType"/>
  <xsd:attribute name="toSyncPoint" type="GUIDType"/>
  <xsd:attribute name="creatingUser" type="GUIDType"/>
  <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
  <xsd:attribute name="modifyingUser" type="GUIDType"/>
  <xsd:attribute name="modifiedDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="SyncPointType">
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="timeStamp" type="xsd:integer"/>
  <xsd:attribute name="position" type="xsd:integer"/>
</xsd:complexType>
<xsd:complexType name="CodingType">
  <xsd:sequence>
    <xsd:element name="CodeRef" type="CodeRefType"/>
    <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="guid" type="GUIDType" use="required"/>
  <xsd:attribute name="creatingUser" type="GUIDType"/>
  <xsd:attribute name="creationDateTime" type="xsd:dateTime"/>
</xsd:complexType>
<xsd:complexType name="GraphsType">
  <xsd:sequence>
    <xsd:element name="Graph" type="GraphType" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GraphType">
  <xsd:sequence>
    <xsd:element name="Vertex" type="VertexType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>

```

```

        <xsd:element name="Edge" type="EdgeType" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="name" type="xsd:string"/>
</xsd:complexType>
<xsd:complexType name="VertexType">
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="representedGUID" type="GUIDType"/>
    <xsd:attribute name="name" type="xsd:string"/>
    <xsd:attribute name="firstX" type="xsd:integer" use="required"/>
    <xsd:attribute name="firstY" type="xsd:integer" use="required"/>
    <xsd:attribute name="secondX" type="xsd:integer"/>
    <xsd:attribute name="secondY" type="xsd:integer"/>
    <xsd:attribute name="shape" type="ShapeType"/>
    <xsd:attribute name="color" type="RGBType"/>
</xsd:complexType>
<xsd:complexType name="EdgeType">
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="representedGUID" type="GUIDType"/>
    <xsd:attribute name="name" type="xsd:string"/>
    <xsd:attribute name="sourceVertex" type="GUIDType" use="required"/>
    <xsd:attribute name="targetVertex" type="GUIDType" use="required"/>
    <xsd:attribute name="color" type="RGBType"/>
    <xsd:attribute name="direction" type="directionType"/>
    <xsd:attribute name="lineStyle" type="LineStyleType"/>
</xsd:complexType>
<xsd:complexType name="NotesType">
    <xsd:sequence>
        <xsd:element name="Note" type="TextSourceType" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="LinksType">
    <xsd:sequence>
        <xsd:element name="Link" type="LinkType" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="LinkType">
    <xsd:sequence>
        <xsd:element name="NoteRef" type="NoteRefType" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="guid" type="GUIDType" use="required"/>
    <xsd:attribute name="name" type="xsd:string"/>
    <xsd:attribute name="direction" type="directionType"/>
    <xsd:attribute name="color" type="RGBType"/>
    <xsd:attribute name="originGUID" type="GUIDType"/>
    <xsd:attribute name="targetGUID" type="GUIDType"/>
</xsd:complexType>
<xsd:complexType name="NoteRefType">
    <xsd:attribute name="targetGUID" type="GUIDType" use="required"/>
</xsd:complexType>
<xsd:complexType name="CodeRefType">
    <xsd:attribute name="targetGUID" type="GUIDType" use="required"/>
</xsd:complexType>
<xsd:complexType name="SourceRefType">
    <xsd:attribute name="targetGUID" type="GUIDType" use="required"/>
</xsd:complexType>
<xsd:complexType name="SelectionRefType">
    <xsd:attribute name="targetGUID" type="GUIDType" use="required"/>
</xsd:complexType>
<xsd:complexType name="VariableRefType">
    <xsd:attribute name="targetGUID" type="GUIDType" use="required"/>
</xsd:complexType>
<xsd:simpleType name="GUIDType">
    <xsd:restriction base="xsd:token">

```

```

        <xsd:pattern value="([0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12})|(\{[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\})"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="RGBType">
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="#"([A-Fa-f0-9]{6}|[A-Fa-f0-9]{3})"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="directionType">
    <xsd:restriction base="xsd:token">
        <xsd:enumeration value="Associative"/>
        <xsd:enumeration value="OneWay"/>
        <xsd:enumeration value="Bidirectional"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="typeOfVariableType">
    <xsd:restriction base="xsd:token">
        <xsd:enumeration value="Text"/>
        <xsd:enumeration value="Boolean"/>
        <xsd:enumeration value="Integer"/>
        <xsd:enumeration value="Float"/>
        <xsd:enumeration value="Date"/>
        <xsd:enumeration value="DateTime"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="ShapeType">
    <xsd:restriction base="xsd:token">
        <xsd:enumeration value="Person"/>
        <xsd:enumeration value="Oval"/>
        <xsd:enumeration value="Rectangle"/>
        <xsd:enumeration value="RoundedRectangle"/>
        <xsd:enumeration value="Star"/>
        <xsd:enumeration value="LeftTriangle"/>
        <xsd:enumeration value="RightTriangle"/>
        <xsd:enumeration value="UpTriangle"/>
        <xsd:enumeration value="DownTriangle"/>
        <xsd:enumeration value="Note"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="LineStyleType">
    <xsd:restriction base="xsd:token">
        <xsd:enumeration value="dotted"/>
        <xsd:enumeration value="dashed"/>
        <xsd:enumeration value="solid"/>
    </xsd:restriction>
</xsd:simpleType>
</xsd:schema>

```

The schema can be accessed online at <http://schema.qdasoftware.org/versions/Project/v1.0/Project.xsd>

6 Data loss

Different QDA software packages provide different features. Not all elements and concepts in the exchange format are supported equally by all software. Therefore it is inevitable that data loss or variations may occur when exchanging projects between software packages. As users may not be aware of the differences in feature support, the software should warn the user at the point of import and export when data loss may occur. The importing software should show in a pop-up (or in another way) which elements are discarded, in as much detail as possible.

7 Exchange format

7.1 QDPX file format

The .qdpX file format is a compressed (zipped) folder structure containing a single .qde file (an XML file containing the project exchange information) and a sources folder named 'sources' containing all internal sources required for the project exchange as a flat structure (no subfolders). This structure is similar to the approach taken by the Office Open XML specification specified by Microsoft and the Open Document specification specified by OpenOffice and its derivatives.

This model allows for a single file to be used to represent the project exchange, whilst allowing complex documents to be seamlessly transferred between different computers, networks and operating systems.

Large multimedia files may also be stored outside the QDPX file and are referred to as external sources.

7.2 Compression scheme

For compression the ZIP compression scheme is used.

7.3 Source paths

Source files can be referenced in two ways: internal in the QDPX file or as external files.

The forward slash / is used as a common delimiter between path components in the resulting XML. The importing package must be able to convert a relative path and the base folder into a compatible file path for the target platform.

The embedded .qde file defines in the "path" attributes of the sources the GUID based filename under which the source can be found in the "sources" folder. In the "currentPath" attribute the original path and filename of the source can be stated.

Sources can be embedded within the .qdpX project exchange file so that they can be transferred seamlessly to another computer, platform or network without the user losing the ability to import the original source files.

Internal sources

Internal files must exist within the sources subfolder, and use a unique GUID as the file name to avoid name clashes and potential text encoding issues. The extensions are the original file extensions.

```
[Containing folder]/
  MyExportFile.qdpX/
    MyExportFile.qde
    sources/
      876dca5e-0703-4e92-952c-3dcff3e8461f.pdf
      11e0d4d7-4de8-4501-a82f-653d3e5d1c15.txt
      960cfc96-bc32-46de-a792-0d17067fed72.png
      45b8e590-960d-4ecf-9627-a82ea2d045e5.mpg
      ...
```

As these sources are embedded with the project itself, this format is the best for providing archivable and retrievable projects with no accidental loss of data.

- Internal files are stored within the sources subfolder of the .qdpX file.
- Internal files are identified in the path attribute of the source element by the URL naming scheme 'internal://'

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External sources

To reduce file size, audio and video files may instead be treated as an external source.

The files can be referred to in two ways:

- as a path relative to the basePath attribute of the project element. Relative files are identified by the URL naming scheme 'relative://'
- as an absolute path. Absolute files are identified by the URL naming scheme 'absolute://'

For relative paths, during export, the user specifies the base path for the sources. The mechanism for requesting this information is left to the QDA software.

e.g. `basePath='//PROJECT/Sources'`

During the import, if the importing application detects that the external file is not found, it should prompt the user for the new file location.

Example

Assuming that the following source files are stored on a Windows file system at C:\PROJECT

```
C:\PROJECT\Sources\SC\Robert Interview.mp4
C:\PROJECT\Sources\AR\John Interview.mp4
C:\PROJECT\Sources\Group Interview.mp4
```

The Robert Interview is referred to as an internal file and is embedded in the qdpx file as 0616fddd-8dd6-42a0-b5b0-ab7c89729219.mp4

It is referred to from the QDE file as

```
<Sources>
  <VideoSource name='Robert Interview' guid='876dca5e-0703-4e92-952c-3dcff3e8461f' path=
'internal://0616fddd-8dd6-42a0-b5b0-ab7c89729219.mp4'
currentPath='absolute:///C:/PROJECT/Sources/SC/Robert Interview.mp4' />
</Sources>
```

The John interview is referred to as a relative external file.

```
<Project basePath='C:/PROJECT/Sources'>
```

```
<Sources>
  <VideoSource name='John Interview' guid='c6fff6c4b-80eb-4473-a361-88daf9845d4f' path=
'relative:///AR/John Interview.mp4' currentPath='absolute:///C:/PROJECT/Sources/AR/John
Interview.mp4' />
</Sources>
```

The group interview is referred to as an absolute external file.

```
<Sources>
  <VideoSource name='Group Interview' guid='de001ef2-5495-45f7-875f-9340938204f8'
path='absolute:///C:/PROJECT/Sources/Group Interview.mp4' />
</Sources>
```

7.4 Naming scheme

Internal files shall use a unique GUID as the filename to avoid name clashes and filename encoding issues. The qde file will contain a mapping to be able to retrieve the original name during import.

The GUID will be used within the QDE file to uniquely identify the source.

7.5 Limitations

The maximum size in bytes allowed for an internal file is 2,147,483,647 bytes ($2^{31}-1$ bytes, or 2 GiB minus 1 byte). An exporting application must detect these file size limit during export and inform the user appropriately.

8 Source types

8.1.1 Introduction

Textual data, such as journal articles and textbooks, will sometimes be PDF documents, DOCX or RTF files. The empirical data files can be of a textual nature, visual or audio. Textual files can consist of transcripts, fieldnotes, meeting notes and other documents and will mostly be in DOCX, RTF, or PDF. Visual data files can consist of photos or video files in different formats, or pictures or graphical representations of some sort. Another type of source is the audio file, be it stand alone or integrated in video. Sometimes during transcription, these audio or video files are linked to one or more textual file(s) by way of timestamps. This transcribing of audio and video can be done within certain QDA software or in specific transcription software. In the latter case, the linked files will be imported into the QDA software.

For the interoperability standard, the file formats DOCX, PDF, JPG and PNG are supported, while video and audio is exchanged as is.

8.1.2 Plain Text

Plain text documents must be stored as a txt file as an internal source.

- The encoding of the text must be UTF-8.
- The extension of the source must be .txt

8.1.3 Styled text

Styled text documents must be stored as a DOCX file, Office Open XML Specifications. Styled text documents must be stored as a DOCX file as an internal source. In order to make selections of styled text documents they should be accompanied by a plain text representation.

- The extension of the source must be .docx
- Mime type: application/vnd.openxmlformats-officedocument.wordprocessingml.document

8.1.4 PDF Documents

PDF documents must be stored as a PDF file as an internal source. In order to make text selections of PDF documents they should be accompanied by a plain text representation

- The extension of the source must be .pdf
- Mime type: application/pdf
- Passwords for encrypted PDFs must not be stored
- Encrypted PDFs must be either:

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- resolved at the time of import by requesting the user to specify the password.
- ignored and requested each time the pdf is opened.

8.1.5 Image types

All images must be stored in JPEG or PNG format as an internal source.

JPG/JPEG

- The extension for the linked file must be .jpg or .jpeg
- Mime-type: image/jpeg
- Image rotation must be respected if it is defined within the image metadata. All coding coordinates represent coordinates in the image's final rotated space.

PNG

- The extension for the linked file must be .png
- Mime-type: image/png
- Image rotation must be respected if it is defined within the image metadata. All coding coordinates represent coordinates in the image's final rotated space.

8.1.6 Audio & Video types

Video and audio formats are wide and varied and can have mixed results on different platforms. Where possible, video should be encoded as mp4 (h264) and audio as m4a as this will have the widest possible support over platforms. However, this is not a hard requirement.

9 Selections

9.1 Introduction

Selections can be made on all types of sources, guided by the interest of the researcher. In textual files, the selections are defined by their character position. In audio and video files they are defined by the position in the file in milliseconds. Selections can have codings. Selections can be annotated with notes.

9.2 Text selections

Selections in a text file are defined by the first and the last character (Unicode codepoint) in the file. The first codepoint in the file has the number 0 (zero).

9.3 PDF selections

Textual selections in a PDF document are actually not selections in the PDF document itself, but in the textual representation of the PDF file (a txt file). This follows the method of text selections.

It is possible to select parts of a page in a PDF file, by specifying the page number and by treating the page as a picture (X-Y selections of PDF points), starting from the bottom-left of the PDF media box.

9.4 Multimedia selections

The QDA-XML standard supports export and import of multimedia data, including still images, audio, and video files.

A still image Source element allows for still image selections. A still image selection represents a rectangle area of the original image, with the selection defining the upper-left and lower-right coordinates within the image.

Selections made from media files include the start position in the media file and the end position in the media file, both measured in milliseconds from the start of the media file.

Media Files, both audio files and video files, can be associated with one or more transcripts. A transcript refers to a text-based representation of the contents of the media file. A media selection may also include a reference to transcript text. This transcript selection may be related to one of the transcripts associated with the media file, but it is also possible for this transcript to be completely independent of other transcripts. It is possible for the selection transcript to differ from the transcript associated with the original, whole media file.

10 Coding

Codes are linked to selections and sources by means of codings in order to structure the data for analysis. They can be annotated with notes, defined with descriptions and linked to other codes. Codes can be organized in sets. Codes can be organised hierarchically. Not all codes can be used for coding; for example code folders. These have their `isCodable` attribute set to false. All codes in a project can be exported as the codebook, including descriptions and organization into sets or hierarchies.

11 Sets

Sources, notes and codes can be grouped in Sets. A Set has a name and a description.

12 Cases and variables

A Case is a subject, object or topic by which sources and selections can be grouped. For example the person that was interviewed multiple times. A case can have variables, e.g. the age of the person. A case can have multiple variables of various types.

13 Graphs

A graph is a two dimensional visualisation. In a graph multiple vertexes (shapes) can be defined, interconnected by edges (lines).

(informative)
Annex A Examples

A.1 Example 1. Codebook.

```
<?xml version="1.0" encoding="UTF-8"?>
<CodeBook
  xmlns="urn:QDA-XML:project:1:0"
  xmlns:qda="urn:QDA-XML:types"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:QDA-XML:project:1:0 Codebook.xsd"
  Name="Example" GUID="{91ffe013-d122-4acb-a25a-2ec103b9e404}">
  <Code
    GUID="{5215cc69-b628-4e02-afb9-9beeae55808}"
    Name="Topics"
    CreatingUser="{e1fcef53-4718-4698-aac9-a4708d4b982c}"
    IsCodable="false">
  </Code>
  <Code
    GUID="{d7aa29da-519b-4946-9b90-253b6db8fd0a}"
    Name="Economy"
    Description="Anything about jobs or taxes or business"
    Type="???"
    CreatingUser="{e1fcef53-4718-4698-aac9-a4708d4b982c}"
    IsCodable="true"
    Color="#ffff00">
    <qda:IsChildOfCode>{5215cc69-b628-4e02-afb9-9beeae55808}</qda:IsChildOfCode>
    <qda:NoteGUID>{3c80b223-e02a-4e89-bc02-4f88b761d8f9}</qda:NoteGUID>
    <qda:SetGUID>{e742306a-4917-48ed-b34d-81581bf55538}</qda:SetGUID>
    <qda:CaseGUID>{cdaef727-b0e2-48e2-8338-53f0f67e6b92}</qda:CaseGUID>
  </Code>
  <Code
    GUID="{0dcef2f5-e55c-49da-8c33-9b0803c7aeb4}"
    Name="Health care"
    Description="Health care issues, doctor, patients, etc."
    CreatingUser="{e1fcef53-4718-4698-aac9-a4708d4b982c}"
    IsCodable="true"
    Color="#33cc33">
    <qda:IsChildOfCode>{5215cc69-b628-4e02-afb9-9beeae55808}</qda:IsChildOfCode>
  </Code>
  <Code
    GUID:"9fa9bcb7-5b59-47a9-8c3e-f65cffdc7520"
    Name="Values"
    CreatingUser="e1fcef53-4718-4698-aac9-a4708d4b982c"
    isCodable=false>
  </Code>
  <Code
    GUID="{7c108712-b650-4892-ac0b-fc9a10190c3b}"
    Name="Conservatives"
    Description="Republicans or right-wing libertarians"
    CreatingUser="{e1fcef53-4718-4698-aac9-a4708d4b982c}"
    IsCodable="true"
    Color="#ff0000">
    <qda:IsChildOfCode>{9fa9bcb7-5b59-47a9-8c3e-f65cffdc7520}</qda:IsChildOfCode>
  </Code>
</Code>
```

```
GUID="{12365523-1035-4afa-9e7b-281fe0bc51c5}"
Name="Liberals"
Description="Democrats, socialists, or progressive independents"
CreatingUser="{e1fcef53-4718-4698-aac9-a4708d4b982c}"
IsCodable="true"
Color="#0000ff">
<qda:IsChildOfCode>{9fa9bcb7-5b59-47a9-8c3e-f65cffdc7520}</qda:IsChildOfCode>
</Code>
</CodeBook>
```

A.2 Example 2. Simple project

QDPX file:

Project.qde

Sources/

```

1DDD235C-9E58-4451-8C49-17013D5C3655.DOCX
3CD739AF-80D7-402D-A836-BE292887E147.DOCX
3E029F7C-B699-47C2-AE9F-95F481693CAF.PDF
9CA38EEA-26FC-4D67-BB7F-45D097991D86.DOCX
9DBE0A35-06E4-4D01-B4F5-93C54FA82957.DOCX
87EAD86F-3112-4537-8A01-01427CAE1C6D.JPG
142EB46D-612E-4593-A385-D0E5D04D1288.TXT
230B768E-5A3D-42B7-BE92-2A3721177944.TXT
88293C71-CB70-4AB7-8413-C24110A19C2E.TXT
484934BD-97FF-4F8C-9690-B9E77A9092B5.PDF
01106019-2518-43DD-BBD1-8F0252BACB30.TXT
B2F54555-0D2D-43B2-B40C-2A1C048F5F1C.TXT
B09E8D25-66A6-4D7E-A884-3E1A11A40E7C.TXT
B5566006-EB5F-43F0-9BC2-DBCD4D2F73F7.DOCX
C1C745F7-8E4D-48B2-9710-655AFE7E54FA.TXT
C8A57C71-D156-4A94-8407-2BD2FA57E2A4.TXT
D32251E3-04A0-4E0C-87A1-46AC68021F21.DOCX

```

Project.QDE:

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<Project xmlns="urn:QDA-XML:project:1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
origin="ATLAS.ti 8.4.0 573 , macOS Version 10.14.3 (Build 18D109)" creatingUserGUID="AD68FBE7-
E1EE-4A82-A279-23CC698C89EB" modifiedDateTime="2018-03-27T17:46:39Z" creationDateTime="2018-03-
27T17:46:39Z" basePath="/Users/sebpe/Library/Mobile Documents/com~apple~CloudDocs/QDA-XML/Exports
from vendors/ATLAS.ti standard project 04-03-2019 Media" modifyingUserGUID="AD68FBE7-E1EE-4A82-
A279-23CC698C89EB" name="ATLAS.ti standard project" xsi:schemaLocation="urn:QDA-XML:project:1.0
http://schema.qdasoftware.org/versions/Project/v1.0/Project.xsd">
  <Users>
    <User guid="C32A2BD5-537F-4838-8B17-DF9EFBAFDF4B" name="ATLAS.ti"/>
    <User guid="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" name="Friedrich Markgraf"/>
    <User guid="A5DE7584-8296-418B-A322-136F77ADF87B" name="Sebastian Petrausch"/>
  </Users>
  <CodeBook>
    <Codes>
      <Code color="#F00082" isCodable="true" name="happiness" guid="85D17F60-7BB0-481E-B742-
B4861DD669DF"/>
      <Code color="#F00082" isCodable="true" name="Feelings" guid="0F8A1907-7E42-4739-8610-
A676B4D1B69F">
        <Description>thoughts about breakfast foods</Description>
      </Code>
      <Code color="#F00082" isCodable="true" name="disgust" guid="D2C1E38E-5220-42FA-A442-
908471CC7964"/>
      <Code color="#F00082" isCodable="true" name="waste of time" guid="7988DAC2-ADBD-4258-
A81E-71489189F5B5"/>
      <Code color="#966450" isCodable="true" name="Coke::full-fat Coke" guid="0983E32E-6866-
431A-BD94-DAC9BB963825">
        <Description>aka regular</Description>
      </Code>
      <Code color="#966450" isCodable="true" name="Coke::diet Coke" guid="D299EFAE-5779-
46DC-9827-A3D1A5D544BC">
        <Description>non sucré</Description>

```

```

</Code>
<Code color="#966450" isCodable="true" name="Coke" guid="7496BA52-9C8D-4396-8FAB-
CC438614E453">
  <Description>the breakfast of champions</Description>
</Code>
<Code guid="C3C7D437-6932-4B14-A55D-30B7F811BBF3" name="milk" isCodable="true"/>
<Code color="#F00082" isCodable="true" name="serene" guid="3DD1A2A6-3AEF-4A4C-9138-
718E9CE2386D"/>
<Code color="#463CC8" isCodable="true" name="bacon and eggs" guid="F9C6EAC0-8A66-4757-
9D8A-9A6C8FEA3C44">
  <Description>a plate of breakfast made by the hotel</Description>
</Code>
<Code color="#F00082" isCodable="true" name="sleepy" guid="BA1EB6DF-89AC-4D11-B69F-
929012A16FD4"/>
<Code color="#46AA00" isCodable="true" name="Breakfast food" guid="E3AABCC1-84E7-48D4-
B059-50FF914ED1E2">
  <Description>the foods people might eat for breakfast</Description>
</Code>
<Code color="#DC0000" isCodable="true" name="cornflakes" guid="AE6D04CE-D987-4FC8-
AF97-D72CA6FFD08F">
  <Description>breakfast cereal made by Kellogg's</Description>
</Code>
<Code color="#F00082" isCodable="true" name="&quot;rushed&quot;" guid="9F43FE32-C2CB-
4BA8-B766-A0734C826E49"/>
</Codes>
</CodeBook>
<Sources>
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creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" creationDateTime="2018-03-27T18:01:07Z"
richTextPath="internal://B5566006-EB5F-43F0-9BC2-DBCD4D2F73F7.docx" guid="69A4332D-5B31-4915-B520-
5275CFC21B40" name="1960s Coca Cola commercial - Audio.docx"/>
  <TextSource plainTextPath="internal://C8A57C71-D156-4A94-8407-2BD2FA57E2A4.txt"
modifyingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" modifiedDateTime="2018-03-27T18:01:07Z"
creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" creationDateTime="2018-03-27T18:01:07Z"
richTextPath="internal://1DDD235C-9E58-4451-8C49-17013D5C3655.docx" guid="51AD8E46-427A-4E6B-AFE7-
BD96C1EFF0AD" name="1960s Coca Cola commercial - Visual.docx"/>
  <TextSource plainTextPath="internal://230B768E-5A3D-42B7-BE92-2A3721177944.txt"
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creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" creationDateTime="2018-03-27T18:01:07Z"
richTextPath="internal://9DBE0A35-06E4-4D01-B4F5-93C54FA82957.docx" guid="57C6099B-934F-4C86-90F2-
CC6C2F2A3CC3" name="1994 Diet Coke-Diet Coke Break.docx">
  <PlainTextSelection startPosition="139" modifyingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" modifiedDateTime="2018-03-27T19:29:27Z" creatingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" creationDateTime="2018-03-27T19:29:27Z" endPosition="195" guid="4191294A-E287-4510-
95B0-69BCE4638E56" name="Oh, that was great. See you tomorrow? Eleven thirty. Mm.">
    <Coding creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB"
creationDateTime="2018-03-27T19:29:27Z" guid="445A6AEC-1400-4502-919D-0867832FF211">
      <CodeRef targetGUID="D299EFAE-5779-46DC-9827-A3D1A5D544BC"/>
    </Coding>
  </PlainTextSelection>
</TextSource>
  <TextSource plainTextPath="internal://88293C71-CB70-4AB7-8413-C24110A19C2E.txt"
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creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" creationDateTime="2018-03-27T18:01:07Z"
richTextPath="internal://9CA38EEA-26FC-4D67-BB7F-45D097991D86.docx" guid="17FB9CB8-7858-4291-A162-
65424B9942EC" name="Mab el 2i eme.txt">
  <PlainTextSelection startPosition="250" modifyingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" modifiedDateTime="2018-03-27T18:49:32Z" creatingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" creationDateTime="2018-03-27T18:49:32Z" endPosition="412" guid="B49D7982-BB8E-4335-
80AF-DC869CCC3F45" name="For some reason babies aren't supposed to have cow's milk that is low
fat. However, I am really bad...">
    <Description>Mabel is not the only person I know who has Coke for
breakfast!</Description>
  </PlainTextSelection>

```

```

</TextSource>
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creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" creationDateTime="2018-03-27T18:01:07Z"
richTextPath="internal://3CD739AF-80D7-402D-A836-BE292887E147.docx" guid="EC0A7242-65E1-457C-B7D1-
310DAE603FAB" name="Mabel.txt">
  <PlainTextSelection startPosition="0" modifyingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" modifiedDateTime="2018-03-27T19:04:19Z" creatingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" creationDateTime="2018-03-27T19:04:19Z" endPosition="410" guid="2F24EA88-C6A7-482B-
8F89-893EF66D7A21" name="I'm a single mum with an 8 month old and a toddler and breakfast is
mayhem. The baby has porridge, I...">
    <Coding creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB"
creationDateTime="2018-03-27T19:04:42Z" guid="2284BF5B-8F78-45B6-A6EF-A128D991408B">
      <CodeRef targetGUID="F9C6EAC0-8A66-4757-9D8A-9A6C8FEA3C44"/>
    </Coding>
    <Coding creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB"
creationDateTime="2018-03-27T19:04:19Z" guid="89B9918E-4209-4FE0-BEA0-0C7FF56D67A4">
      <CodeRef targetGUID="AE6D04CE-D987-4FC8-AF97-D72CA6FFD08F"/>
    </Coding>
    <Coding creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB"
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      <CodeRef targetGUID="85D17F60-7BB0-481E-B742-B4861DD669DF"/>
    </Coding>
  </PlainTextSelection>
</TextSource>
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creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" creationDateTime="2018-03-27T18:01:07Z"
richTextPath="internal://D32251E3-04A0-4E0C-87A1-46AC68021F21.docx" guid="AE5298BE-7C94-4B66-8A9C-
51FBE232D2F5" name="Simon.docx">
  <PlainTextSelection startPosition="688" modifyingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" modifiedDateTime="2018-03-27T18:42:00Z" creatingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" creationDateTime="2018-03-27T18:39:50Z" endPosition="907" guid="63E009F1-5C33-4568-
B65D-53A7E28BDBC1" name="damage done by fatty foods">
    <Description>why does Simon feel the need to do this?</Description>
    <Coding creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB"
creationDateTime="2018-03-27T18:39:50Z" guid="9AD860A5-3D53-4BDE-B5EE-A8FC613C1652">
      <CodeRef targetGUID="F9C6EAC0-8A66-4757-9D8A-9A6C8FEA3C44"/>
    </Coding>
  </PlainTextSelection>
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23CC698C89EB" modifiedDateTime="2018-03-27T19:02:20Z" creatingUser="AD68FBE7-E1EE-4A82-A279-
23CC698C89EB" creationDateTime="2018-03-27T19:02:20Z" endPosition="275" guid="789A62D6-A2AD-4B59-
AB90-EF1D4AB1868F" name="I did try the gluten free bread, but it was always so soggy,">
    <Coding creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB"
creationDateTime="2018-03-27T19:02:20Z" guid="61C727FB-E8CD-442D-B34E-D20F6B843407">
      <CodeRef targetGUID="0F8A1907-7E42-4739-8610-A676B4D1B69F"/>
    </Coding>
  </PlainTextSelection>
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23CC698C89EB" creationDateTime="2018-03-27T19:00:54Z" endPosition="907" guid="F4E8FF7E-1E00-4112-
ADD1-37F087BB8598" name="But to be honest, I used to have a much bigger breakfast, and these days
I find myself snacking about...">
    <Coding creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB"
creationDateTime="2018-03-27T19:00:54Z" guid="B1CE75CA-1953-43E9-9CE4-26A9AAB4DC02">
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    </Coding>
  </PlainTextSelection>
</TextSource>
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27T18:01:07Z" path="internal://87EAD86F-3112-4537-8A01-01427CAE1C6D.jpg" guid="02255470-09E6-400B-
9E20-97D71FBEC65D" name="cornflakes-n-milk.jpg">

```

```

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670E-471B-AA89-A1098E9A4E33" name="Quotation 6:1">
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27T18:01:07Z" path="internal://4849348D-97FF-4F8C-9690-B9E77A9092B5.pdf" guid="03F134F1-AB05-46E6-
8702-1D6930D7F7F0" name="Kellogg's Passion for Nutrition.pdf">
    <Representation plainTextPath="internal://B09E8D25-66A6-4D7E-A884-3E1A11A40E7C.txt"
modifyingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" modifiedDateTime="2018-03-27T18:01:07Z"
creatingUser="AD68FBE7-E1EE-4A82-A279-23CC698C89EB" creationDateTime="2018-03-27T18:01:07Z"
guid="B09E8D25-66A6-4D7E-A884-3E1A11A40E7C" name="Representation_for_Kellogg's Passion for
Nutrition.pdf"/>
  </PDFSource>
  <PDFSource modifiedDateTime="2018-03-27T18:01:07Z" modifyingUser="AD68FBE7-E1EE-4A82-A279-
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27T18:01:07Z" path="internal://3E029F7C-B699-47C2-AE9F-95F481693CAF.pdf" guid="2065D8AB-D724-40C9-
B4E9-6EB8DAB73541" name="Pay de Limón con Base de Granola | Kellogg's ®.pdf">
    <PDFSelection firstX="18" firstY="45" modifyingUser="AD68FBE7-E1EE-4A82-A279-
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27T19:11:47Z" modifiedDateTime="2018-03-27T19:11:47Z" secondY="234" secondX="577" guid="95916796-
D0A0-4B49-80B0-5A5C8B94AE13" name="favoritos. Dificultad: Media Tiempo: 2 horas 30 minutos
Porciones: 8 Ingredientes Para la bas..." page="0">
      <Representation guid="7CFEDFC8-A48D-4F27-B3E0-FF2E7D7B1CD7">
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      </PlainTextContent>
    </Representation>
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creationDateTime="2018-03-27T19:11:47Z" guid="DA81AC20-2C10-45DE-9D95-1F87DF90D77D">
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Dificultad: Media Tiempo: 2 horas 30 minutos Porciones: 8 Ingredientes Para la bas..."
page="1" guid="7B8C9A7D-1AD6-4A88-8556-50B9A35FDA19">
    <Representation guid="03EFB0D3-6805-4253-BD99-F226E7E84EA4">
      <PlainTextContent> Porciones: 8 IngredientesPara la base:340 g de Granola
Kellogg's® Granos Ancestrales; Amaranto, linaza y arándano.90 g de mantequilla</PlainTextContent>
    </Representation>
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    </Coding>
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    </Coding>
  </PDFSelection>

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QDAS-XML

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    <PlainTextContent>granola</PlainTextContent>
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QDAS-XML

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</Graphs>
</Project>

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A.3 Example 3. Complex project

QDPX file:

Project.qde

Sources/

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Project.QDE:

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QDAS-XML

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QDAS-XML

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QDAS-XML

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QDAS-XML

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QDAS-XML

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QDAS-XML

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