

# [MS-ACCDT]: Access Template File Format

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## Revision Summary

Date	Revision History	Revision Class	Comments
07/13/2009	0.1	Major	Initial Availability
08/28/2009	0.2	Editorial	Revised and edited the technical content
11/06/2009	0.3	Editorial	Revised and edited the technical content
02/19/2010	1.0	Major	Updated and revised the technical content
03/31/2010	1.01	Editorial	Revised and edited the technical content
04/30/2010	1.02	Editorial	Revised and edited the technical content
06/07/2010	1.03	Minor	Updated the technical content
06/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
07/23/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
09/27/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.05	Minor	Clarified the meaning of the technical content.
12/17/2010	1.05	No change	No changes to the meaning, language, or formatting of the technical content.

# Table of Contents

<b>1 Introduction</b>	<b>5</b>
1.1 Glossary	5
1.2 References	5
1.2.1 Normative References	5
1.2.2 Informative References	6
1.3 Structure Overview (Synopsis)	6
1.4 Relationship to Protocols and Other Structures	7
1.5 Applicability Statement	7
1.6 Versioning and Localization	7
1.7 Vendor-Extensible Fields	8
<b>2 Structures</b>	<b>9</b>
2.1 File Structure	9
2.1.1 Package	9
2.1.2 Part	9
2.1.3 Relationship	9
2.1.4 Part Enumeration	10
2.1.4.1 Application Properties	11
2.1.4.2 Data Macro	11
2.1.4.3 File Properties, Core	12
2.1.4.4 Form	12
2.1.4.5 Icon	12
2.1.4.6 Image	13
2.1.4.7 Image Cluster	13
2.1.4.8 Instantiation Form	14
2.1.4.9 Legacy Application Properties	14
2.1.4.10 Linked Table	14
2.1.4.11 List Definition	14
2.1.4.12 Macro	15
2.1.4.13 Navigation Pane	15
2.1.4.14 Object	15
2.1.4.15 Object Metadata	16
2.1.4.16 Object Properties	16
2.1.4.17 Preview Image	16
2.1.4.18 Query	17
2.1.4.19 Relationship	17
2.1.4.20 Report	17
2.1.4.21 Resource	18
2.1.4.22 Table Data	18
2.1.4.23 Template Metadata	18
2.1.4.24 Theme	18
2.1.4.25 Variation	19
2.1.4.26 Visual Basic References	19
2.2 Template Metadata	19
2.2.1 Global Elements	19
2.2.1.1 Template	19
2.2.2 Global Attributes	19
2.2.3 Complex Types	20
2.2.3.1 CT_Template	20
2.2.4 Simple Types	21

2.3	Object Metadata .....	21
2.3.1	Global Elements .....	21
2.3.1.1	AccessObject.....	21
2.3.2	Global Attributes .....	21
2.3.3	Complex Types .....	21
2.3.3.1	CT_NameMap.....	21
2.3.3.2	CT_AccessObject .....	21
2.3.4	Simple Types .....	22
2.3.4.1	ST_Type.....	22
2.4	List Schema .....	23
2.4.1	Add Calculated Fields .....	23
2.4.2	Add Fields .....	23
2.4.3	Add List .....	23
2.4.4	Field Properties .....	24
2.4.5	List Properties.....	24
2.5	List Data.....	24
2.5.1	Data Instance .....	24
2.5.2	Schema .....	24
<b>3</b>	<b>Structure Examples .....</b>	<b>25</b>
3.1	Example: List Schema .....	25
3.2	Example: List Data .....	28
3.3	Example: Images.....	32
<b>4</b>	<b>Security Considerations.....</b>	<b>34</b>
<b>5</b>	<b>Appendix A: Full XML Schemas .....</b>	<b>35</b>
5.1	<a href="http://schemas.microsoft.com/office/access/2005/04/template/start">http://schemas.microsoft.com/office/access/2005/04/template/start</a> .....	35
5.2	<a href="http://schemas.microsoft.com/office/access/2005/04/template/object-metadata">http://schemas.microsoft.com/office/access/2005/04/template/object-metadata</a> .....	35
<b>6</b>	<b>Appendix B: Product Behavior .....</b>	<b>37</b>
<b>7</b>	<b>Change Tracking.....</b>	<b>38</b>
<b>8</b>	<b>Index .....</b>	<b>39</b>

# 1 Introduction

The Access Template File Format Specification specifies the Access Template File Format (.accdt). This File Format is a collection of structures used to define a **database application**. These structures can include schemas for storing data, the data to be stored, layout descriptions for views of the data, actions controlling workflow, and metadata describing the database application as a whole.

## 1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

### **Augmented Backus-Naur Form (ABNF)**

The following terms are defined in [\[MS-OFCGLOS\]](#):

**database application**  
**field**  
**list**  
**list item**  
**sort order**

The following terms are specific to this document:

**calculated field:** A user-defined field that can perform calculations by using the contents of other fields.

**database object:** An object such as a table, query, form, report, macro, or module that can be referenced by name in a database, database application, or database project.

**database template:** A file that contains the data and component descriptions that are needed to create or instantiate a database application.

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as described in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## 1.2 References

### 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[ISO/IEC-29500-1] International Organization for Standardization, "Information Technology - Document description and processing languages - Office Open XML File Formats - Part 1: Fundamentals and Markup Language Reference", ISO/IEC PRF 29500-1, 2008, [http://www.iso.org/iso/iso\\_catalogue/catalogue\\_tc/catalogue\\_detail.htm?csnumber=51463](http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=51463)

[ISO/IEC-29500-2] International Organization for Standardization, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 2: Open Packaging Conventions", ISO/IEC 29500-2:2008, [http://www.iso.org/iso/iso\\_catalogue/catalogue\\_tc/catalogue\\_detail.htm?csnumber=51459](http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=51459)

[MS-ASWS] Microsoft Corporation, "[Access Services Protocol Specification](#)", July 2009.

[MS-AXL] Microsoft Corporation, "[Access Application Transfer Protocol Structure Specification](#)", July 2009.

[MS-LISTSWS] Microsoft Corporation, "[Lists Web Service Protocol Specification](#)", June 2008.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.ietf.org/rfc/rfc2119.txt>

[RFC5234] Crocker, D., Ed., and Overell, P., "Augmented BNF for Syntax Specifications: ABNF", STD 68, RFC 5234, January 2008, <http://www.ietf.org/rfc/rfc5234.txt>

[XMLSCHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

### 1.2.2 Informative References

[ISO/IEC-29500-3] International Organization for Standardization, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 3: Markup Compatibility and Extensibility", 2008, [http://www.iso.org/iso/catalogue\\_detail?csnumber=51461](http://www.iso.org/iso/catalogue_detail?csnumber=51461)

[MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)", March 2007.

[MS-OFGLGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)", June 2008.

### 1.3 Structure Overview (Synopsis)

This document specifies the format of a **database template** used to create an instance of a database application. The database template data is contained in a ZIP **package** (section [2.1.1](#)) conforming to Open Packaging Conventions as specified in [\[ISO/IEC-29500-2\]](#). Individual files stored in the ZIP package (section [2.1.1](#)) called **parts** (section [2.1.2](#)) contain information about the structure and content of the resulting database application. The parts include definitions of the **database objects**, data to be populated, and properties of the resulting database application. Note that the contents of many of the parts (section [2.1.2](#)) described in this document are the same as those used by the MSysASO **list (1)** as described in [\[MS-ASWS\]](#) section 3.1.1.1.1.

The document is organized as follows:

Section [2](#) of this documentation contains an overview of high-level concepts that are followed by more detailed concepts. Section [2.1](#) specifies higher-level concepts that are required to understand the remainder of the documentation, and should be read before reading the remainder of section [2](#).

Section [2.1](#) specifies the structure and concepts that are used to organize and structure the file itself. Subsection [2.1.4](#) further specifies the valid **parts** (section [2.1.2](#)) allowed within this **package** (section [2.1.1](#)).

Section [2.2](#) specifies the details of structures that contain metadata associated with the database template.

Section [2.3](#) specifies the details of structures that contain metadata associated with individual database objects.

Section [2.4](#) specifies the details of structures used for creating lists (1).

Section [2.5](#) specifies the details of structures that contain data to be populated in the resulting database application.

Section [3](#) provides specific examples intended to illustrate the concepts and elements of this file format.

Section [4](#) discusses security considerations relating to files of the type specified by the document.

Section [6](#) is a list of application-specific behavior. It is not intended to be read alone, but rather to be understood in the context of specifications in section [2](#). Specifications in section [2](#) provide links to the relevant items in section [6](#).

## 1.4 Relationship to Protocols and Other Structures

The Access Template File Format is a package containing a set of related parts as specified by [\[ISO/IEC-29500-2\]](#). It is dependent on the structures defined in the following references:

- [\[MS-AXL\]](#) for the persistence format for database objects.
- [\[MS-LISTSWS\]](#) for the persistence format for list (1) definitions. **[MS-LISTSWS]** describes a SOAP protocol; the Access Template File Format contains a set of persisted SOAP commands defined by this protocol that can be issued to create a list with a particular schema. Section [2.4](#) describes this relationship in detail.
- [\[XMLSCHEMA2\]](#) for the persistence format for list (1) data.
- [\[MS-ASWS\]](#) for the persistence format of version-related values, as described in Section [2.2.3.1](#).

## 1.5 Applicability Statement

This document specifies a persistence format for database applications, which can include structures for storing data, the data to be stored, layout descriptions for views of the data, actions to control workflow, and metadata to describe the database application as a whole. This persistence format is applicable for persistence of applications based on storing data in tables, including views and logic to control workflow.

This persistence format is applicable for use as a stand-alone document.

This persistence format provides interoperability with applications that create or read documents conforming to this structure.

## 1.6 Versioning and Localization

This document covers versioning issues in the following areas:

**Structure Versions:** There is only one version of the Access Template File Format (.accdt) Specification.

**Localization:** The structure of the Access Template File Format (.accdt) contains no locale-dependent information.

## 1.7 Vendor-Extensible Fields

This persistence format can be extended by storing information in parts not specified in Section 2. Implementations are not required to preserve or remove additional parts when modifying an existing document. Implementations can extend the XML as specified by [\[ISO/IEC-29500-3\]](#).



## 2 Structures

### 2.1 File Structure

This section specifies the overall structure of a file that conforms to this specification.

A file of the type specified by this document is a **package** (section [2.1.1](#)) that contains a collection of related **parts** (section [2.1.2](#)). **Parts** contain information about the contents of a database application, including database objects, associated metadata, and the structure of the **package**. **Parts** contain information stored using XML, text, and binary formats.

#### 2.1.1 Package

A file of the type specified by this document is a package that is a ZIP archive that conforms to the Open Packaging Conventions as specified in [\[ISO/IEC-29500-2\]](#), the further packaging restrictions specified in [\[ISO/IEC-29500-1\]](#) section 9, and this specification.

A file of the type specified by this document MUST contain one **Template Metadata** (section [2.1.4.23](#)) part, and that **part** (section [2.1.2](#)) MUST be the target of a **relationship** (section [2.1.3](#)) in the package relationship **part**. The **Template Metadata** part is the main or starting **part** in a file of the type specified by this document.

#### 2.1.2 Part

A part is a stream of bytes as specified in [\[ISO/IEC-29500-2\]](#) section 9.1. Each part has an associated content type that specifies the nature and type of content stored in the part. Parts store information in binary, XML, and text formats. The valid parts, valid content types, and required **relationships** (section [2.1.3](#)) between all parts in a **package** (section [2.1.1](#)) are specified in **Part Enumeration** (section [2.1.4](#)).

This document uses **Augmented Backus-Naur Form** (ABNF) as specified in [\[RFC5234\]](#) to specify the content of the **List Definition** (section [2.1.4.11](#)) and **Table Data** (section [2.1.4.22](#)) parts.

#### 2.1.3 Relationship

A relationship specifies a connection between a source and a target resource as specified in [\[ISO/IEC-29500-2\]](#) section 9.3. Relationship identifiers are used in binary, XML, and text **part** (section [2.1.2](#)) content to reference unique relationship elements in relationship **parts** that in turn target other resources. There are several different types of relationships:

- A package relationship is a relationship where the target is a **part** and the source is the **package** (section [2.1.1](#)) as a whole.
- A part-to-part relationship is a relationship where the target is a **part** and the source is a **part** in the **package**.
- An explicit relationship is a relationship where a resource is referenced from the contents of a source **part** by referencing a relationship element by the value of its **ID** attribute, specified in [\[ISO/IEC-29500-2\]](#) section 9.3.2.
- An implicit relationship is a relationship that is not explicit.
- An internal relationship is a relationship where the target is a **part** in the **package**.

- An external relationship is a relationship where the target is an external resource not in the **package**.

## 2.1.4 Part Enumeration

This section specifies the parts of the Access Template File Format (.accdt) package. Refer to the sections **Package** (section [2.1.1](#)), **Part** (section [2.1.2](#)), and **Relationship** (section [2.1.3](#)) for information about packages, parts, and **relationships**, including the package relationship part.

**Parts** and their **relationships** are summarized in the following table:

Part	Relationship Target of
<b>Application Properties</b> (section <a href="#">2.1.4.1</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Data Macro</b> (section <a href="#">2.1.4.2</a> )	<b>List Definition</b> (section <a href="#">2.1.4.11</a> ), <b>Object</b> (section <a href="#">2.1.4.14</a> )
<b>File Properties, Core</b> (section <a href="#">2.1.4.3</a> )	<b>Package</b> (section <a href="#">2.1.1</a> )
<b>Form</b> (section <a href="#">2.1.4.4</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Icon</b> (section <a href="#">2.1.4.5</a> )	<b>Package</b> (section <a href="#">2.1.1</a> )
<b>Image</b> (section <a href="#">2.1.4.6</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Image Cluster</b> (section <a href="#">2.1.4.7</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Instantiation Form</b> (section <a href="#">2.1.4.8</a> )	<b>Package</b> (section <a href="#">2.1.1</a> )
<b>Legacy Application Properties</b> (section <a href="#">2.1.4.9</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Linked Table</b> (section <a href="#">2.1.4.10</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>List Definition</b> (section <a href="#">2.1.4.11</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Macro</b> (section <a href="#">2.1.4.12</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Navigation Pane</b> (section <a href="#">2.1.4.13</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Object</b> (section <a href="#">2.1.4.14</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Object Metadata</b> (section <a href="#">2.1.4.15</a> )	<b>Form</b> (section <a href="#">2.1.4.4</a> ), <b>Linked Table</b> (section <a href="#">2.1.4.10</a> ), <b>List Definition</b> (section <a href="#">2.1.4.11</a> ), <b>Macro</b> (section <a href="#">2.1.4.12</a> ), <b>Object</b> (section <a href="#">2.1.4.14</a> ), <b>Query</b> (section <a href="#">2.1.4.18</a> ), <b>Report</b> (section <a href="#">2.1.4.20</a> )
<b>Object Properties</b> (section <a href="#">2.1.4.16</a> )	<b>Form</b> (section <a href="#">2.1.4.4</a> ), <b>List Definition</b> (section <a href="#">2.1.4.11</a> ), <b>Query</b> (section <a href="#">2.1.4.18</a> ), <b>Report</b> (section <a href="#">2.1.4.20</a> )
<b>Preview Image</b> (section <a href="#">2.1.4.17</a> )	<b>Package</b> (section <a href="#">2.1.1</a> )

Part	Relationship Target of
<b>Query</b> (section <a href="#">2.1.4.18</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Relationship</b> (section <a href="#">2.1.4.19</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Report</b> (section <a href="#">2.1.4.20</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Resource</b> (section <a href="#">2.1.4.21</a> )	<b>Image</b> (section <a href="#">2.1.4.6</a> ), <b>Image Cluster</b> (section <a href="#">2.1.4.7</a> ), <b>Theme</b> (section <a href="#">2.1.4.24</a> )
<b>Table Data</b> (section <a href="#">2.1.4.22</a> )	<b>List Definition</b> (section <a href="#">2.1.4.11</a> ), <b>Object</b> (section <a href="#">2.1.4.14</a> )
<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )	<b>Package</b> (section <a href="#">2.1.1</a> )
<b>Theme</b> (section <a href="#">2.1.4.24</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )
<b>Variation</b> (section <a href="#">2.1.4.25</a> )	<b>Form</b> (section <a href="#">2.1.4.4</a> ), <b>Linked Table</b> (section <a href="#">2.1.4.10</a> ), <b>List Definition</b> (section <a href="#">2.1.4.11</a> ), <b>Macro</b> (section <a href="#">2.1.4.12</a> ), <b>Object</b> (section <a href="#">2.1.4.14</a> ), <b>Query</b> (section <a href="#">2.1.4.18</a> ), <b>Report</b> (section <a href="#">2.1.4.20</a> )
<b>Visual Basic References</b> (section <a href="#">2.1.4.26</a> )	<b>Template Metadata</b> (section <a href="#">2.1.4.23</a> )

In the following sections, Content type is as specified in [\[ISO/IEC-29500-2\]](#) section 9.1.2 and Relationship type is as specified in [\[ISO/IEC-29500-2\]](#) section 9.3.2

### 2.1.4.1 Application Properties

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/Properties">http://schemas.microsoft.com/office/2007/relationships/Properties</a>

An instance of this part type specifies properties of the database application.

An Application Properties part **MUST** be the target of exactly one explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

The content associated with this part begins with the Application element as specified by [\[MS-AXL\]](#) section 2.2.1.1.

### 2.1.4.2 Data Macro

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/DataMacros">http://schemas.microsoft.com/office/2007/relationships/DataMacros</a>

An instance of this part type contains definitions for the data macros, as specified by [\[MS-AXL\]](#) section 2.1.3.2, that are associated with a list (1).

A Data Macro part **MUST** be the target of an explicit relationship from a **List Definition** (section [2.1.4.11](#)) or **Object** (section [2.1.4.14](#)) part.

The content associated with this part begins with the **DataMacros** element as specified by [\[MS-AXL\]](#) section 2.2.1.5.

### 2.1.4.3 File Properties, Core

This part is specified in [\[ISO/IEC-29500-1\]](#) section 15.2.12.1. The content associated with this part is specified in [\[ISO/IEC-29500-2\]](#) section 11.

### 2.1.4.4 Form

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/Form">http://schemas.microsoft.com/office/2007/relationships/Form</a>

An instance of this part type contains the definition for a single form as specified by [\[MS-AXL\]](#) section 2.1.2.

A Form part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

A Form part MUST have an explicit relationship to exactly one **Object Metadata** (section [2.1.4.15](#)) part.

A Form part MUST have an explicit relationship to exactly one **Object Properties** (section [2.1.4.16](#)) part.

The content associated with this part begins with the View element as specified by [\[MS-AXL\]](#) section 2.2.1.7.

### 2.1.4.5 Icon

Content type	Relationship type
Image/unknown Image/bmp Image/gif Image/png Image/tiff Image/xbm Image/x-icon Image/x-pcx Image/x-pcz Image/x-emz Image/x-wmz Image/jpeg Image/x-emf Image/x-wmf	<a href="http://schemas.microsoft.com/office/2007/relationships/icon-image">http://schemas.microsoft.com/office/2007/relationships/icon-image</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

An Icon part MUST be the target of an explicit relationship from the **Package** (section [2.1.1](#)) part.

### 2.1.4.6 Image

Content type	Relationship type
Image/unknown Image/bmp Image/gif Image/png Image/tiff Image/xbm Image/x-icon Image/x-pcx Image/x-pcz Image/x-emz Image/x-wmz Image/jpeg Image/x-emf Image/x-wmf	<a href="http://schemas.microsoft.com/office/2007/relationships/shared-image">http://schemas.microsoft.com/office/2007/relationships/shared-image</a>

An instance of this part type contains an image to be used as a Shared Image as specified by [\[MS-AXL\]](#) section 2.1.6.

An Image part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

An Image part MUST have an explicit relationship to exactly one **Resource** (section [2.1.4.21](#)) part.

### 2.1.4.7 Image Cluster

Content type	Relationship type
Image/unknown Image/bmp Image/gif Image/png Image/tiff Image/xbm Image/x-icon Image/x-pcx Image/x-pcz Image/x-emz Image/x-wmz Image/jpeg Image/x-emf Image/x-wmf	<a href="http://schemas.microsoft.com/office/2007/relationships/image-cluster">http://schemas.microsoft.com/office/2007/relationships/image-cluster</a>

An instance of this part type contains an image cluster to be used as a Shared Image as specified by [\[MS-AXL\]](#) section 2.1.6. An image cluster is a composite image where specific portions of the image are used by forms in the database application as specified by [\[MS-AXL\]](#) sections [2.3.4.77](#), [2.3.4.78](#), and [2.3.4.79](#).

An Image Cluster part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

An Image Cluster part MUST have an explicit relationship to exactly one **Resource** (section [2.1.4.21](#)) part.

#### 2.1.4.8 Instantiation Form

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/instantiation-form">http://schemas.microsoft.com/office/2007/relationships/instantiation-form</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

An Instantiation Form part MUST be the target of an explicit relationship from the **Package** (section [2.1.1](#)) part.

#### 2.1.4.9 Legacy Application Properties

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/access/2005/04/template/properties">http://schemas.microsoft.com/office/access/2005/04/template/properties</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

A Legacy Application Properties part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

#### 2.1.4.10 Linked Table

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/Link">http://schemas.microsoft.com/office/2007/relationships/Link</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

A Linked Table part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

A Linked Table part MUST have an explicit relationship to exactly one **Object Metadata** (section [2.1.4.15](#)) part.

#### 2.1.4.11 List Definition

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/ListInstanceDefinition">http://schemas.microsoft.com/office/2007/relationships/ListInstanceDefinition</a>

An instance of this part type contains the definition for a single list (1).

A List Definition part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

A List Definition part MUST have an explicit relationship to exactly one **Object Metadata** (section [2.1.4.15](#)) part.

A List Definition part MUST have an explicit relationship to exactly one **Object Properties** (section [2.1.4.16](#)) part.

The content associated with this part is specified by **List Schema** (section [2.4](#)).

#### 2.1.4.12 Macro

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/Macro">http://schemas.microsoft.com/office/2007/relationships/Macro</a>

An instance of this part type contains the definition for a single standalone User Interface Macro as specified by [\[MS-AXL\]](#) section 2.1.3.1.

A Macro part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

A Macro part MUST have an explicit relationship to exactly one **Object Metadata** (section [2.1.4.15](#)) part.

The content associated with this part begins with the **UserInterfaceMacro** element as specified by [\[MS-AXL\]](#) section 2.2.1.6

#### 2.1.4.13 Navigation Pane

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/access/2005/04/template/nav-pane">http://schemas.microsoft.com/office/access/2005/04/template/nav-pane</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

A Navigation Pane part MUST be the target of exactly one explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

#### 2.1.4.14 Object

Content type	Relationship type
Text/xml Text/plain	<a href="http://schemas.microsoft.com/office/access/2005/04/template/object">http://schemas.microsoft.com/office/access/2005/04/template/object</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

An Object part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

An Object part MUST have an explicit relationship to exactly one **Object Metadata** (section [2.1.4.15](#)) part.

### 2.1.4.15 Object Metadata

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/access/2005/04/template/object-metadata">http://schemas.microsoft.com/office/access/2005/04/template/object-metadata</a>

An instance of this part type contains the definition of the metadata associated with a single object.

An Object Metadata part MUST be the target of an explicit relationship from a **Form** (section [2.1.4.4](#)), **Linked Table** (section [2.1.4.10](#)), **List Definition** (section [2.1.4.11](#)), **Macro** (section [2.1.4.12](#)), **Object** (section [2.1.4.14](#)), **Query** (section [2.1.4.18](#)), or **Report** (section [2.1.4.20](#)) part.

The content associated with this part is specified by section [2.3](#).

### 2.1.4.16 Object Properties

Content type	Relationship type
application/vnd-ms-access.objectproperties+xml	<a href="http://schemas.microsoft.com/office/2007/relationships/ObjectProperties">http://schemas.microsoft.com/office/2007/relationships/ObjectProperties</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

An Object Properties part MUST be the target of an explicit relationship from a **Form** (section [2.1.4.4](#)), **List Definition** (section [2.1.4.11](#)), **Query** (section [2.1.4.18](#)), or **Report** (section [2.1.4.20](#)) part.

### 2.1.4.17 Preview Image

Content type	Relationship type
Image/unknown Image/bmp Image/gif Image/png Image/tiff Image/xbm Image/x-icon Image/x-pcx Image/x-pcz Image/x-emz Image/x-wmz Image/jpeg Image/x-emf Image/x-wmf	<a href="http://schemas.microsoft.com/office/access/2005/04/template/preview-image">http://schemas.microsoft.com/office/access/2005/04/template/preview-image</a>

An instance of this part type can have any content such that the part remains valid for the given content type.



A Preview Image part MUST be the target of an explicit relationship from the **Package** (section [2.1.1](#)) part.

#### 2.1.4.18 Query

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/Query">http://schemas.microsoft.com/office/2007/relationships/Query</a>

An instance of this part type contains the definition for a single query as specified by [\[MS-AXL\]](#) section 2.1.4.

A Query part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

A Query part MUST have an explicit relationship to exactly one **Object Metadata** (section [2.1.4.15](#)) part.

A Query part MUST have an explicit relationship to exactly one **Object Properties** (section [2.1.4.16](#)) part.

The content associated with this part begins with the Query element as specified by [\[MS-AXL\]](#) section 2.2.1.2.

#### 2.1.4.19 Relationship

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/access/2005/04/template/relationships">http://schemas.microsoft.com/office/access/2005/04/template/relationships</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

A Relationship part MUST be the target of exactly one explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

#### 2.1.4.20 Report

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/2007/relationships/Report">http://schemas.microsoft.com/office/2007/relationships/Report</a>

An instance of this part type contains the definition for a single report as specified by [\[MS-AXL\]](#) section 2.1.5.

A Report part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

A Report part MUST have an explicit relationship to exactly one **Object Metadata** (section [2.1.4.15](#)) part.

A Report part MUST have an explicit relationship to exactly one **Object Properties** (section [2.1.4.16](#)) part.

The content associated with this part begins with the Report element as specified by [\[MS-AXL\]](#) section 2.4.1.1.

### 2.1.4.21 Resource

Content type	Relationship type
Text/plain	<a href="http://schemas.microsoft.com/office/2007/relationships/resource-name">http://schemas.microsoft.com/office/2007/relationships/resource-name</a>

An instance of this part type contains the name of a shared resource, which uniquely identifies the resource in the template. A Resource part MUST be the target of an explicit relationship from an **Image** (section [2.1.4.6](#)), **Image Cluster** (section [2.1.4.7](#)), or **Theme** (section [2.1.4.24](#)) part. This file MUST contain a single line that is the name of the **shared resource** used by the database application. The combination of a shared resource's name and its parent part type (**Image**, **Image Cluster**, or **Theme**) MUST be unique within the database application.

The resource name MUST NOT be longer than 64 characters and MUST NOT contain any of the following characters:

! ` [ ] ; . ~ # % & \* { } \ : < > ? / |"

### 2.1.4.22 Table Data

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/access/2005/04/template/table-data">http://schemas.microsoft.com/office/access/2005/04/template/table-data</a>

An instance of this part defines the schema associated with the table and the data contained in the table.

A Table Data part MUST be the target of an explicit relationship from a **List Definition** (section [2.1.4.11](#)) or **Object** (section [2.1.4.14](#)) part.

The content associated with this part is specified by **List Data** (section [2.5](#)).

### 2.1.4.23 Template Metadata

Content type	Relationship type
Text/xml	<a href="http://schemas.microsoft.com/office/access/2005/04/template/start">http://schemas.microsoft.com/office/access/2005/04/template/start</a>

An instance of this part type contains the template-level metadata for the current file.

A Template Metadata part MUST be the target of exactly one explicit relationship from the **Package** (section [2.1.1](#)) part.

The content associated with this part is specified by **Template Metadata** (section [2.2](#)).

### 2.1.4.24 Theme

Content type	Relationship type
application/vnd.ms-officetheme	<a href="http://schemas.microsoft.com/office/2007/relationships/shared-theme">http://schemas.microsoft.com/office/2007/relationships/shared-theme</a>

An instance of this part type contains display details for a single display theme.

A Theme part MUST be the target of an explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

A Theme part MUST have an explicit relationship to exactly one **Resource** (section [2.1.4.21](#)) part.

The contents of this part MUST be a ZIP archive that conforms to the Open Packaging Conventions as specified in [\[ISO/IEC-29500-2\]](#) and the further packaging restrictions specified in [\[ISO/IEC-29500-1\]](#) section 9. This ZIP archive MUST contain at least one Theme part as specified by [\[ISO/IEC-29500-1\]](#) section 14.2.7.

#### 2.1.4.25 Variation

Content type	Relationship type
Text/xml Text/plain	<a href="http://schemas.microsoft.com/office/access/2005/04/template/variation">http://schemas.microsoft.com/office/access/2005/04/template/variation</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

A Variation part MUST be the target of an explicit relationship from a **Form** (section [2.1.4.4](#)), **Linked Table** (section [2.1.4.10](#)), **List Definition** (section [2.1.4.11](#)), **Macro** (section [2.1.4.12](#)), **Object** (section [2.1.4.14](#)), **Query** (section [2.1.4.18](#)), or **Report** (section [2.1.4.20](#)) part.

#### 2.1.4.26 Visual Basic References

Content type	Relationship type
Application/xml	<a href="http://schemas.microsoft.com/office/access/2005/04/template/vba-references">http://schemas.microsoft.com/office/access/2005/04/template/vba-references</a>

An instance of this part type can have any content such that the part remains valid for the given content type.

A Visual Basic References part MUST be the target of exactly one explicit relationship from the **Template Metadata** (section [2.1.4.23](#)) part.

## 2.2 Template Metadata

### 2.2.1 Global Elements

#### 2.2.1.1 Template

*Target namespace:* <http://schemas.microsoft.com/office/access/2005/04/template/start>

A **CT\_Template** (section [2.2.3.1](#)) element.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="Template" type="CT_Template"/>
```

#### 2.2.2 Global Attributes

None.

## 2.2.3 Complex Types

### 2.2.3.1 CT\_Template

*Target namespace:* <http://schemas.microsoft.com/office/access/2005/04/template/start>

*Referenced by:* [Template](#)

Metadata for the template described by the current file.

*Child Elements:*

**TemplateFormat** : MUST be ignored.

**FlipRightToLeft** : MUST be ignored.

**PerformLocalizationFixup** : MUST be ignored.

**CollatingOrder** : An unsignedInt [\[XMLSCHEMA2\]](#) element that specifies the locale to be used for the **sort order (1)**.

**DataLocale** : An unsignedInt [\[XMLSCHEMA2\]](#) element that specifies the locale to be used for formatting data.

**UILocale** : An unsignedInt [\[XMLSCHEMA2\]](#) element that specifies the locale to be used for displaying the template in the user interface.

**RequiredAccessVersion** : A string [\[XMLSCHEMA2\]](#) element that specifies the version of the template. This element MUST be set to 12 or 14.

**AccessServicesVersion** : A string [\[XMLSCHEMA2\]](#) element that is used to determine the target namespace for Xml in parts of this template that are defined by schemas in [\[MS-AXL\]](#). The format of this string MUST follow the ABNF [\[RFC4234\]](#) specified by [\[MS-ASWS\]](#) section 3.1.1.2. The target namespaces that are used based on its value MUST be those specified by [\[MS-ASWS\]](#) section 3.1.1.2.

**Type** : MUST be ignored.

**PerformFontFixup** : MUST be ignored.

**VariationIdentifier** : MUST be ignored.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Template">
  <xsd:sequence>
    <xsd:element name="TemplateFormat" type="xsd:unsignedInt" minOccurs="0"/>
    <xsd:element name="FlipRightToLeft" type="xsd:unsignedInt"/>
    <xsd:element name="PerformLocalizationFixup" type="xsd:unsignedInt"/>
    <xsd:element name="CollatingOrder" type="xsd:unsignedInt" minOccurs="0"/>
    <xsd:element name="DataLocale" type="xsd:unsignedInt" minOccurs="0"/>
    <xsd:element name="UILocale" type="xsd:unsignedInt" minOccurs="0"/>
    <xsd:element name="RequiredAccessVersion" type="xsd:string"/>
    <xsd:element name="AccessServicesVersion" type="xsd:string"/>
    <xsd:element name="Type" type="xsd:string"/>
    <xsd:element name="PerformFontFixup" type="xsd:unsignedInt" minOccurs="0"/>
    <xsd:element name="VariationIdentifier" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

```
</xsd:sequence>
</xsd:complexType>
```

## 2.2.4 Simple Types

None.

## 2.3 Object Metadata

### 2.3.1 Global Elements

#### 2.3.1.1 AccessObject

*Target namespace:* <http://schemas.microsoft.com/office/access/2005/04/template/object-metadata>

A **CT\_AccessObject** (section [2.3.3.2](#)) element that specifies a database object.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="AccessObject" type="CT_AccessObject"/>
```

#### 2.3.2 Global Attributes

None.

### 2.3.3 Complex Types

#### 2.3.3.1 CT\_NameMap

*Target namespace:* <http://schemas.microsoft.com/office/access/2005/04/template/object-metadata>

*Referenced by:* [CT\\_AccessObject](#)

MUST be ignored.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_NameMap">
  <xsd:sequence>
    <xsd:any maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

#### 2.3.3.2 CT\_AccessObject

*Target namespace:* <http://schemas.microsoft.com/office/access/2005/04/template/object-metadata>

*Referenced by:* [AccessObject](#)

*Child Elements:*

**Type** : An **ST\_Type** (section [2.3.4.1](#)) element that specifies the type of the object.

**Name** : A string [\[XMLSCHEMA2\]](#) element that specifies the name of the object. This value MUST conform to the restrictions of a ST\_ObjectName simple type as specified by [\[MS-AXL\]](#) section 2.2.4.1.

**NameMap** : MUST be ignored.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_AccessObject">
  <xsd:sequence>
    <xsd:element name="Type" type="ST_Type"/>
    <xsd:element name="Name" type="xsd:string"/>
    <xsd:element name="NameMap" type="CT_NameMap" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

## 2.3.4 Simple Types

### 2.3.4.1 ST\_Type

*Target namespace:* <http://schemas.microsoft.com/office/access/2005/04/template/object-metadata>

*Referenced by:* [CT\\_AccessObject](#)

Specifies the type of object contained within the related part.

Value	Meaning
Table	The part associated with the current Object Metadata part describes a tabular data.
Link	The part associated with the current Object Metadata part describes a connection to an external data source.
SQLLink	The part associated with the current Object Metadata part describes a connection to a SQL database.
Query	The part associated with the current Object Metadata part describes a query.
Form	The part associated with the current Object Metadata part describes a form.
Report	The part associated with the current Object Metadata part describes a report.
Macro	The part associated with the current Object Metadata part describes a workflow.
Module	The part associated with the current Object Metadata part describes a programming language source code.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1) fragment specifies the contents of this simple type.

```
<xsd:simpleType name="ST_Type">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Table"/>
    <xsd:enumeration value="Link"/>
  </xsd:restriction>
</xsd:simpleType>
```

```

    <xsd:enumeration value="SQLLink"/>
    <xsd:enumeration value="Query"/>
    <xsd:enumeration value="Form"/>
    <xsd:enumeration value="Report"/>
    <xsd:enumeration value="Macro"/>
    <xsd:enumeration value="Module"/>
  </xsd:restriction>
</xsd:simpleType>

```

## 2.4 List Schema

The List Schema is determined by a series of SOAP requests made to the Lists web service as specified by [\[MS-LISTSWS\]](#). The requests are appended together and stored in the **List Definition** (section [2.1.4.11](#)) part.

The List Schema MUST contain only **AddList** requests, as specified by [\[MS-LISTSWS\]](#) section 3.1.4.3, and **UpdateList** requests, as specified by [\[MS-LISTSWS\]](#) section 3.1.4.30.

The List Schema MUST contain at least one **AddList** request. Each **UpdateList** request MUST contain a **listProperties** element, **newFields** element, and **updateFields** element, in that order, as specified by [\[MS-LISTSWS\]](#) section 3.1.4.30.2.1.

The format of the List Schema SHOULD conform to the following ABNF [\[RFC5234\]](#) grammar:

```

LISTSCHEMADEF = ROOT-OPEN-TAG AddList AddFields AddCalcFields ListProperties
FieldProperties ROOT-CLOSE-TAG
ROOT-OPEN-TAG = "<Root>"
ROOT-CLOSE-TAG = "</Root>"

```

### 2.4.1 Add Calculated Fields

This element is a SOAP request to add **calculated fields** to the list (1) created in **AddList** (section [2.4.3](#)) by calling the UpdateList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.30.

Each **field (3)** to be added MUST have an entry under the newFields element.

### 2.4.2 Add Fields

This element is a SOAP request to add fields (3) to the list (1) created in **AddList** (section [2.4.3](#)) by calling the UpdateList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.30. It also modifies fields (3) that were created by default in the list (1) as specified by the templateID in **AddList**.

Each field (3) to be added MUST have an entry under the newFields element, with the exception of fields (3) specified under the **AddCalcFields** (section [2.4.1](#)) element.

Each field (3) to be modified MUST have an entry under the updateFields element.

### 2.4.3 Add List

This element is a SOAP request that creates a new list (1) by calling the AddList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.3.

The listName and templateID MUST be specified. All other values are ignored.

#### 2.4.4 Field Properties

This element is a SOAP request to modify the properties of fields (3) in the list (1) created in **AddList** (section 2.4.3) by calling the UpdateList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.30.

Each field (3) to be modified MUST have an entry under the updateFields element.

#### 2.4.5 List Properties

This element is a SOAP request to modify properties of the list (1) created in **AddList** (section 2.4.3) by calling the UpdateList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.30. Any properties of the list (1) not set during **AddList** MUST be set as part of this request.

### 2.5 List Data

List Data describes a set of **list items** for a particular list (1) schema as XML. This XML contains an inline schema that describes the shape of the list items. When List Data is used as the contents of a **Table Data** (section 2.1.4.22) part, the schema included in this XML MUST describe the same list items as the ListSchema in the related **List Definition** (section 2.1.4.11) part.

The format of this XML MUST conform to the following ABNF [\[RFC5234\]](#) grammar:

```
LISTDATADEF = ROOT-OPEN-TAG SCHEMA DATAINSTANCE ROOT-CLOSE-TAG
ROOT-OPEN-TAG = "<root xmlns:xsd=\"\" SCHEMA-NAMESPACE \"\" xmlns:od=\"\" OD-NAMESPACE
\"\">"
SCHEMA-NAMESPACE = "http://www.w3.org/2001/XMLSchema"
OD-NAMESPACE = "urn:schemas-microsoft-com:officedata"
ROOT-CLOSE-TAG = "</root>"
```

#### 2.5.1 Data Instance

Data Instance is XML that describes the data contained in the list (1). This XML MUST be an XML document that conforms to the schema specified by the **Schema** section (section 2.5.2). Each child element of the Data Instance SHOULD represent a single list item in the list (1).

#### 2.5.2 Schema

This Schema MUST be an XML Schema Definition (XSD) as specified by [\[XMLSCHEMA2\]](#) that defines the schema of the Data Instance. The elements and attributes corresponding to the Office Data Namespace, that is, "urn:schemas-microsoft-com:officedata" MUST be ignored.



## 3 Structure Examples

### 3.1 Example: List Schema

The following example uses the contents of a **List Definition** (section [2.1.4.11](#)) part to create a list (1) called Contacts with the following fields (3) – **ID** (A field (3) of data type **Autonumber**), **Company** (A field (3) of data type **Text**), Last Name (A field (3) of data type **Text**) and First Name (A field (3) of datatype **Text**).

The **List Schema** (section [2.4](#)) in this example is a collection of SOAP calls of the following form:

```
LIST SCHEMA DEF = ROOT-OPEN-TAG AddList AddFields AddCalcFields ListProperties
FieldProperties ROOT-CLOSE-TAG
```

Where,

ROOT-OPEN-TAG is as follows:

```
<Root>
```

ROOT-CLOSE-TAG is as follows:

```
</Root>
```

**AddList** (section [2.4.3](#)) consists of the following SOAP request that creates a list (1) named Contacts by calling the AddList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.3.

```
<SoapMethod>http://schemas.microsoft.com/sharepoint/soap/AddList</SoapMethod>
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
  <Body>
    <AddList xmlns="http://schemas.microsoft.com/sharepoint/soap/">
      <listName>Contacts</listName>
      <description/>
      <templateID>105</templateID>
    </AddList>
  </Body>
</Envelope>
```

**AddFields** (section [2.4.2](#)) consists of the following SOAP request that adds fields (3) to the list (1) by calling the UpdateList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.30.

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <UpdateList xmlns="http://schemas.microsoft.com/sharepoint/soap/">
      <listName>{BC5B1011-A346-43D8-A949-A99C845DEF26}</listName>
      <listProperties>
        <List EnableAttachments="FALSE" CalculatedFieldBehavior="PreserveEmptyValues"
EnforceDataValidation="TRUE"/>
      </listProperties>
```

```

<newFields>
  <Fields>
    <Method ID="10" AddToView="">
      <Field DisplayName="Company" Type="Text">
        <ValidationDisplayNames/>
      </Field>
    </Method>
    <Method ID="11" AddToView="">
      <Field DisplayName="Last Name" Type="Text">
        <ValidationDisplayNames/>
      </Field>
    </Method>
    <Method ID="12" AddToView="">
      <Field DisplayName="First Name" Type="Text">
        <ValidationDisplayNames/>
      </Field>
    </Method>
    <Method ID="13" AddToView="">
      <Field DisplayName="_OldID" Type="Number" Decimals="0">
        <ValidationDisplayNames/>
      </Field>
    </Method>
  </Fields>
</newFields>
<updateFields>
  <Fields>
    <Method ID="14">
      <Field Type="Text" Calculated="FALSE" Name="Title"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Title" ColName="nvarchar1"
DisplayName="SharePointTitle" Hidden="TRUE" FromBaseType="FALSE" Required="FALSE">
        <ValidationDisplayNames/>
      </Field>
    </Method>
    <Method ID="15">
      <Field Type="Counter" Calculated="FALSE" ColName="tp_ID" RowOrdinal="0"
ReadOnly="TRUE" Name="ID" PrimaryKey="TRUE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ID" FromBaseType="TRUE"
DisplayName="ID">
        <ValidationDisplayNames/>
      </Field>
    </Method>
  </Fields>
</updateFields>
<deleteFields>
  <Fields>
  </Fields>
</deleteFields>
<listVersion>0</listVersion>
</UpdateList>

```

In this example `_OLDID`, `Company`, `Last Name` and `First Name` fields (3) each have an entry under the `newFields` element. There is also an entry under the `updateFields` element for each field (3) in the list (1) that is created with template identifier 105.

The `ListName` element contains an arbitrary GUID for the list (1) name. It is assumed that all requests to the List service are intended to work on the list (1) created by the `AddList` request.

**AddCalcFields** (section [2.4.1](#)) is not present because the list (1) in this example does not contain any calculated columns.

**ListProperties** (section [2.4.5](#)) consists of the following SOAP request which modifies fields (3) in the list (1) by calling the UpdateList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.30.

```
</soap:Body>
</soap:Envelope>
<SoapMethod>http://schemas.microsoft.com/sharepoint/soap/UpdateList</SoapMethod>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <UpdateList xmlns="http://schemas.microsoft.com/sharepoint/soap/">
      <listName>{BC5B1011-A346-43D8-A949-A99C845DEF26}</listName>
      <listProperties>
        <List Direction="ltr"/>
      </listProperties>
      <newFields>
        <Fields>
        </Fields>
      </newFields>
      <updateFields>
        <Fields>
        </Fields>
      </updateFields>
      <deleteFields>
        <Fields>
        </Fields>
      </deleteFields>
      <listVersion>0</listVersion>
    </UpdateList>
  </soap:Body>
</soap:Envelope>
```

The List Direction property is set to "ltr" for the list (1). None of the fields (3) are modified; hence there is no field (3) entry under the updateFields element.

**FieldProperties** (section [2.4.4](#)) consists of the following SOAP request which modifies properties of the list (1) by calling the UpdateList method of the Lists web service specified by [\[MS-LISTSWS\]](#) section 3.1.4.30.

```
</soap:Body>
</soap:Envelope>
<SoapMethod>http://schemas.microsoft.com/sharepoint/soap/UpdateList</SoapMethod>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <UpdateList xmlns="http://schemas.microsoft.com/sharepoint/soap/">
      <listName>{BC5B1011-A346-43D8-A949-A99C845DEF26}</listName>
      <listProperties>
        <List/>
      </listProperties>
      <newFields>
        <Fields>
        </Fields>
      </newFields>
    </UpdateList>
  </soap:Body>
</soap:Envelope>
```

```

<updateFields>
  <Fields>
    <Method ID="16">
      <Field DisplayName="Company" Type="Text" MaxLength="50">
        <ValidationDisplayNames/>
      </Field>
    </Method>
    <Method ID="17">
      <Field DisplayName="Last Name" Type="Text" MaxLength="50">
        <ValidationDisplayNames/>
      </Field>
    </Method>
    <Method ID="18">
      <Field DisplayName="First Name" Type="Text" MaxLength="50">
        <ValidationDisplayNames/>
      </Field>
    </Method>
  </Fields>
</updateFields>
<deleteFields>
  <Fields>
  </Fields>
</deleteFields>
<listVersion>0</listVersion>
</UpdateList>
</soap:Body>
</soap:Envelope>

```

The Type property is set to "Text" and MaxLength property is set to "50" for Company, Last Name and First Name fields (3).

All these requests are appended together and stored in the **List Definition** (section [2.1.4.11](#)) Part.

### 3.2 Example: List Data

In this example, when the template is instantiated, it creates a database application that contains a list (1) called Contacts with the following fields (3) and sample data

ID	Company	Last Name	First Name
1	Contoso	John	Smith
2	Contoso	Jane	Doe

The **List Data** (section [2.5](#)) element in this example is of the following form:

```
LIST DATA = ROOT-OPEN-TAG SCHEMA DATAINSTANCE ROOT-CLOSE-TAG
```

Where,

SCHEMA-NAMESPACE = "http://www.w3.org/2001/XMLSchema"

OD-NAMESPACE = "urn:schemas-microsoft-com:officedata"

ROOT-OPEN-TAG is as follows:

```
<root xmlns:xsd="" SCHEMA-NAMESPACE "" xmlns:od="" OD-NAMESPACE "">
```

ROOT-CLOSE-TAG is as follows:

```
</root>
```

**SCHEMA** (section [2.5.2](#)) XML is an XSD that defines the schema of the list (1) in the example is as follows:

```
<xsd:schema>
  <xsd:element name="dataroot">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="Contacts" minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
      <xsd:attribute name="generated" type="xsd:dateTime"/>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="Contacts">
    <xsd:annotation>
      <xsd:appinfo />
    </xsd:annotation>
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ID" minOccurs="1" type="xsd:int">
          <xsd:annotation>
            <xsd:appinfo />
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="Company" minOccurs="0">
          <xsd:annotation>
            <xsd:appinfo />
          </xsd:annotation>
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:maxLength value="50"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="Last_x0020_Name" minOccurs="0">
          <xsd:annotation>
            <xsd:appinfo/>
          </xsd:annotation>
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:maxLength value="50"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="First_x0020_Name" minOccurs="0">
          <xsd:annotation>
            <xsd:appinfo />
          </xsd:annotation>
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:maxLength value="50"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

```

```

    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:schema>

```

Note that following elements and attributes corresponding to the Office Data Namespace are ignored.

```

<od:index index-name="Company" index-key="Company " primary="no" unique="no" clustered="no"
order="asc"/>
<od:index index-name="First Name" index-key="First_x0020_Name " primary="no" unique="no"
clustered="no" order="asc"/>
<od:index index-name="Last Name" index-key="Last_x0020_Name " primary="no" unique="no"
clustered="no" order="asc"/>
<od:index index-name="PrimaryKey" index-key="ID " primary="yes" unique="yes" clustered="no"
order="asc"/>
<od:tableProperty name="Orientation" type="2" value="0"/>
<od:tableProperty name="OrderByOn" type="1" value="0"/>
<od:tableProperty name="DefaultView" type="2" value="2"/>
<od:tableProperty name="WSSTemplateID" type="3" value="105"/>
<od:tableProperty name="TotalsRow" type="1" value="0"/>
<od:tableProperty name="FilterOnLoad" type="1" value="0"/>
<od:tableProperty name="OrderByOnLoad" type="1" value="1"/>
<od:tableProperty name="DisplayViewsOnSharePointSite" type="2" value="1"/>
<od:tableProperty name="StarColumnHidden" type="1" value="0"/>
<od:tableProperty name="HideNewField" type="1" value="0"/>
<od:tableProperty name="NameMap" type="11"
value="CswOVQAAAAATEHe+VQ/oRowbCBVNjaoaAAAAAClEms2geNAAAAAAAAAAAAABDAG8A
bgB0AGEAYwB0AHMAAAAAAAMJpgNpkFEOIk4IGF6kygAcAAAAATEHe+VQ/oRowb
CBVNjaoaSQBEAAAAAAAAAAS3eiieomNGsks5h00T0EMHAAAAExB3v1UP6EaMGwgV
TY2qGkMAbwBtAHAAyQBuaAHkAAAAAQAqeqqJhCDiUqnFm4HUasmhgcaAAAAATEHe+
VQ/oRowbCBVNjaoaTABhAHMadaAgAE4AYQBtAGUAAAAAAAAAovBS5cL1E2owB8/
WqhFVgcAAAAATEHe+VQ/oRowbCBVNjaoaRgBpAHIAcwb0ACAATgBhAG0AZQAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA=====
"/>
<od:tableProperty name="SubdatasheetName" type="10" value="[Auto]"/>
<od:tableProperty name="GUID" type="9" value="ExB3v1UP6EaMGwgVTY2qGg==
"/>
<od:tableProperty name="BackTint" type="6" value="100"/>
<od:tableProperty name="BackShade" type="6" value="100"/>
<od:tableProperty name="ThemeFontIndex" type="4" value="-1"/>
<od:tableProperty name="AlternateBackThemeColorIndex" type="4" value="-1"/>
<od:tableProperty name="AlternateBackTint" type="6" value="100"/>
<od:tableProperty name="AlternateBackShade" type="6" value="100"/>
<od:tableProperty name="ReadOnlyWhenDisconnected" type="1" value="0"/>
<od:tableProperty name="WaitForPostProcessing" type="1" value="0"/>
<od:tableProperty name="DatasheetGridlinesThemeColorIndex" type="4" value="-1"/>
<od:tableProperty name="DatasheetGridlinesTint" type="6" value="100"/>
<od:tableProperty name="DatasheetGridlinesShade" type="6" value="100"/>
<od:tableProperty name="DatasheetForeThemeColorIndex" type="4" value="-1"/>
<od:tableProperty name="DatasheetForeTint" type="6" value="100"/>
<od:tableProperty name="DatasheetForeShade" type="6" value="100"/>
<od:tableProperty name="PublishToWeb" type="2" value="2"/>

<od:fieldProperty name="ColumnWidth" type="3" value="960"/>
<od:fieldProperty name="ColumnOrder" type="3" value="1"/>
<od:fieldProperty name="ColumnHidden" type="1" value="0"/>

```

```

<od:fieldProperty name="WSSFieldID" type="10" value="ID"/>
<od:fieldProperty name="AggregateType" type="4" value="-1"/>
<od:fieldProperty name="RowSourceType" type="10" value="Table/Query"/>
<od:fieldProperty name="BoundColumn" type="3" value="1"/>
<od:fieldProperty name="ColumnCount" type="3" value="1"/>
<od:fieldProperty name="ColumnHeads" type="1" value="0"/>
<od:fieldProperty name="AllowValueListEdits" type="1" value="0"/>
<od:fieldProperty name="TextAlign" type="2" value="0"/>
<od:fieldProperty name="ShowOnlyRowSourceValues" type="1" value="0"/>
<od:fieldProperty name="GUID" type="9" value="eMJpgNpkFEOIk4IGF6kygA==" />
<od:fieldProperty name="ResultType" type="2" value="0"/>

<od:fieldProperty name="ColumnWidth" type="3" value="-1"/>
<od:fieldProperty name="ColumnOrder" type="3" value="0"/>
<od:fieldProperty name="ColumnHidden" type="1" value="0"/>
<od:fieldProperty name="Required" type="1" value="0"/>
<od:fieldProperty name="AllowZeroLength" type="1" value="0"/>
<od:fieldProperty name="DisplayControl" type="3" value="109"/>
<od:fieldProperty name="IMEMode" type="2" value="0"/>
<od:fieldProperty name="IMESentenceMode" type="2" value="0"/>
<od:fieldProperty name="UnicodeCompression" type="1" value="1"/>
<od:fieldProperty name="TextAlign" type="2" value="0"/>
<od:fieldProperty name="AggregateType" type="4" value="-1"/>
<od:fieldProperty name="WSSFieldID" type="10" value="Company"/>
<od:fieldProperty name="GUID" type="9" value="BLd6KJ6iY0aySzmE7RPQQw==" />
<od:fieldProperty name="ResultType" type="2" value="0"/>

<od:fieldProperty name="ColumnWidth" type="3" value="-1"/>
<od:fieldProperty name="ColumnOrder" type="3" value="0"/>
<od:fieldProperty name="ColumnHidden" type="1" value="0"/>
<od:fieldProperty name="Required" type="1" value="0"/>
<od:fieldProperty name="AllowZeroLength" type="1" value="0"/>
<od:fieldProperty name="DisplayControl" type="3" value="109"/>
<od:fieldProperty name="IMEMode" type="2" value="0"/>
<od:fieldProperty name="IMESentenceMode" type="2" value="0"/>
<od:fieldProperty name="UnicodeCompression" type="1" value="1"/>
<od:fieldProperty name="TextAlign" type="2" value="0"/>
<od:fieldProperty name="AggregateType" type="4" value="-1"/>
<od:fieldProperty name="WSSFieldID" type="10" value="Title"/>
<od:fieldProperty name="GUID" type="9" value="qeqqJhCDiUqnFm4HUasmhg==" />

<od:fieldProperty name="ColumnWidth" type="3" value="-1"/>
<od:fieldProperty name="ColumnOrder" type="3" value="0"/>
<od:fieldProperty name="ColumnHidden" type="1" value="0"/>
<od:fieldProperty name="Required" type="1" value="0"/>
<od:fieldProperty name="AllowZeroLength" type="1" value="0"/>
<od:fieldProperty name="DisplayControl" type="3" value="109"/>
<od:fieldProperty name="IMEMode" type="2" value="0"/>
<od:fieldProperty name="IMESentenceMode" type="2" value="0"/>
<od:fieldProperty name="UnicodeCompression" type="1" value="1"/>
<od:fieldProperty name="TextAlign" type="2" value="0"/>
<od:fieldProperty name="AggregateType" type="4" value="-1"/>
<od:fieldProperty name="WSSFieldID" type="10" value="FirstName"/>
<od:fieldProperty name="GUID" type="9" value="ovBS5cL12E2owB8/WqhFVg==" />
<od:fieldProperty name="ResultType" type="2" value="0"/>

```

**DATAINSTANCE** (section [2.5.1](#)) is XML that describes the data contained in the list (1) is as follows:

```
<dataroot xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" generated="2009-05-14T12:06:59">
  <Contacts>
    <ID>1</ID>
    <Company>Contoso</Company>
    <Last_x0020_Name>John</Last_x0020_Name>
    <First_x0020_Name>Smith</First_x0020_Name>
  </Contacts>
  <Contacts>
    <ID>2</ID>
    <Company>Contoso</Company>
    <Last_x0020_Name>Jane</Last_x0020_Name>
    <First_x0020_Name>Doe</First_x0020_Name>
  </Contacts>
</dataroot>
```

Note that this XML is an instance of the schema of the list (1) as specified by the **Schema** (section [2.5.2](#)) in this example.

### 3.3 Example: Images

In this example, the database template contains definition of form ([\[MS-AXL\]](#) section 2.1.2) which contains a shared image ([\[MS-AXL\]](#) section 2.1.6) of type **image** (section [2.1.4.6](#)). The following figure shows the **image** (section [2.1.4.6](#)) in the form:



**Figure 1: Shared Resource Image in Form**

In the example, the following **image** (section [2.1.4.6](#)) exists with file name FormLogo-2-name.jpg:



**Figure 2: Image FormLogo-2-name.jpg**



A **resource** (section [2.1.4.21](#)) part named FormLogo-2-name.txt contains the name for the **image** (section [2.1.4.6](#)). The contents of FormLogo-2-name.txt are as follows:

```
Form Logo
```

The **template metadata** (section [2.2](#)) **part** (section [2.1.2](#)) contains an entry in **relationship** (section [2.1.4.19](#)) **part** (section [2.1.2](#)) called template.xml.rels where FormLogo-2-name.jpg is the target. The XML for the **relationship** (section [2.1.4.19](#)) is as follows:

```
<Relationship Id="FormLogo-2"  
Type="http://schemas.microsoft.com/office/2007/relationships/shared-image"  
Target="database/resources/FormLogo-2.jpg" /></Relationships>
```

The **resource** (section [2.1.4.21](#)) **part** (section [2.1.2](#)) contains an entry in **relationship** (section [2.1.4.19](#)) **part** (section [2.1.2](#)) called FormLogo-2.jpg.rels where FormLogo-2-name.txt is the target. The XML for the **relationship** (section [2.1.4.19](#)) is as follows:

```
<Relationship Id="name"  
Type="http://schemas.microsoft.com/office/2007/relationships/resource-name" Target="FormLogo-  
2-name.txt" /></Relationships>
```

## 4 Security Considerations

None.

## 5 Appendix A: Full XML Schemas

This section specifies the XSDs defined within this specification.

### 5.1 <http://schemas.microsoft.com/office/access/2005/04/template/start>

```
<xsd:schema
  targetNamespace="http://schemas.microsoft.com/office/access/2005/04/template/start"
  xmlns="http://schemas.microsoft.com/office/access/2005/04/template/start"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <xsd:complexType name="CT_Template">
  <xsd:sequence>
  <xsd:element name="TemplateFormat" type="xsd:unsignedInt" minOccurs="0" />
  <xsd:element name="FlipRightToLeft" type="xsd:unsignedInt" />
  <xsd:element name="PerformLocalizationFixup" type="xsd:unsignedInt" />
  <xsd:element name="CollatingOrder" type="xsd:unsignedInt" minOccurs="0" />
  <xsd:element name="DataLocale" type="xsd:unsignedInt" minOccurs="0" />
  <xsd:element name="UILocale" type="xsd:unsignedInt" minOccurs="0" />
  <xsd:element name="RequiredAccessVersion" type="xsd:string" />
  <xsd:element name="AccessServicesVersion" type="xsd:string" />
  <xsd:element name="Type" type="xsd:string" />
  <xsd:element name="PerformFontFixup" type="xsd:unsignedInt" minOccurs="0" />
  <xsd:element name="VariationIdentifier" type="xsd:string" minOccurs="0" />
  </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="Template" type="CT_Template" />
</xsd:schema>
```

### 5.2 <http://schemas.microsoft.com/office/access/2005/04/template/object-metadata>

```
<xsd:schema
  targetNamespace="http://schemas.microsoft.com/office/access/2005/04/template/object-metadata"
  xmlns="http://schemas.microsoft.com/office/access/2005/04/template/object-metadata"
```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xsd:simpleType name="ST_Type">
<xsd:restriction base="xsd:string">
<xsd:enumeration value="Table" />
<xsd:enumeration value="Link" />
<xsd:enumeration value="SQLLink" />
<xsd:enumeration value="Query" />
<xsd:enumeration value="Form" />
<xsd:enumeration value="Report" />
<xsd:enumeration value="Macro" />
<xsd:enumeration value="Module" />
</xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CT_NameMap">
<xsd:sequence>
<xsd:any maxOccurs="unbounded" />
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CT_AccessObject">
<xsd:sequence>
<xsd:element name="Type" type="ST_Type" />
<xsd:element name="Name" type="xsd:string" />
<xsd:element name="NameMap" type="CT_NameMap" minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
<xsd:element name="AccessObject" type="CT_AccessObject" />
</xsd:schema>

```

## 6 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft® Access® 2010
- Microsoft® SharePoint® Server 2010

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

## 7 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

## 8 Index

### A

[Add calculated fields list schema](#) 23  
[Add fields list schema](#) 23  
[Add list schema](#) 23  
[Applicability](#) 7

### C

[Change tracking](#) 38  
Complex Types  
  [CT\\_AccessObject](#) 21  
  [CT\\_NameMap](#) 21  
  [CT\\_Template](#) 20

### D

[Data instance list data](#) 24  
Details  
  [add calculated fields list schema](#) 23  
  [add fields list schema](#) 23  
  [add list schema](#) 23  
  [data instance list data](#) 24  
  [field properties list schema](#) 24  
  [file structure](#) 9  
  [global attributes object metadata](#) 21  
  [global attributes template metadata](#) 19  
  [list data](#) 24  
  [list properties list schema](#) 24  
  [List Schema](#) 23  
  [package file structure](#) 9  
  [part enumeration file structure](#) 10  
  [part file structure](#) 9  
  [relationship file structure](#) 9  
  [schema list data](#) 24  
  [simple types template metadata](#) 21  
Details - complex types  
  [CT\\_AccessObject](#) 21  
  [CT\\_NameMap](#) 21  
Details - complex types  
  [CT\\_Template](#) 20  
Details - global elements  
  [CT\\_NameMap](#) 21  
Details - global elements  
  [template](#) 19  
Details - part enumeration  
  [application properties](#) 11  
  [data macro](#) 11  
  file properties  
    [core](#) 12  
    [form](#) 12  
    [icon](#) 12  
    [image](#) 13  
    [image cluster](#) 13  
    [instantiation form](#) 14  
    [legacy application properties](#) 14  
    [linked table](#) 14  
    [list definition](#) 14  
    [macro](#) 15

[navigation pane](#) 15  
  [object](#) 15  
  [object metadata](#) 16  
  [object properties](#) 16  
  [preview image](#) 16  
  [query](#) 17  
  [relationship](#) 17  
  [report](#) 17  
  [resource](#) 18  
  [table data](#) 18  
  [template metadata](#) 18  
  [theme](#) 18  
  [variation](#) 19  
  [visual basic references](#) 19  
Details - simple types  
  [ST\\_Type](#) 22

### E

Elements - global  
  [CT\\_NameMap](#) 21  
  [template](#) 19  
Examples  
  [Images](#) 32  
  [List Data](#) 28  
  [List Schema](#) 25

### F

[Field properties list schema](#) 24  
[Fields - vendor-extensible](#) 8  
[File structure](#) 9  
[File structures - package](#) 9  
[File structures - part](#) 9  
[File structures - part enumeration](#) 10  
  [application properties](#) 11  
  [data macro](#) 11  
  file properties  
    [core](#) 12  
    [form](#) 12  
    [icon](#) 12  
    [image](#) 13  
    [image cluster](#) 13  
    [instantiation form](#) 14  
    [legacy application properties](#) 14  
    [linked table](#) 14  
    [list definition](#) 14  
    [macro](#) 15  
    [navigation pane](#) 15  
    [object](#) 15  
    [object metadata](#) 16  
    [object properties](#) 16  
    [preview image](#) 16  
    [query](#) 17  
    [relationship](#) 17  
    [report](#) 17  
    [resource](#) 18  
    [table data](#) 18  
    [template metadata](#) 18

[theme](#) 18  
[variation](#) 19  
[visual basic references](#) 19  
[File structures - relationship](#) 9  
[Full XML schema](#) 35

## G

[Global attributes object metadata](#) 21  
[Global attributes template metadata](#) 19  
Global elements  
    [CT NameMap](#) 21  
    [template](#) 19  
[Glossary](#) 5

## I

[Images example](#) 32  
[Implementer - security considerations](#) 34  
[Informative references](#) 6  
[Introduction](#) 5

## L

[List data](#) 24  
[List data - data instance](#) 24  
[List data - schema](#) 24  
[List Data example](#) 28  
[List properties list schema](#) 24  
[List Schema](#) 23  
[List Schema example](#) 25  
[List schemas - add calculated fields](#) 23  
[List schemas - add fields](#) 23  
[List schemas - add list](#) 23  
[List schemas - field properties](#) 24  
[List schemas - list properties](#) 24  
[Localization](#) 7

## N

[Normative references](#) 5

## O

Object metadata - complex types  
    [CT AccessObject](#) 21  
    [CT NameMap](#) 21  
[Object metadata - global attributes](#) 21  
Object metadata - global elements  
    [CT NameMap](#) 21  
Object metadata - simple types  
    [ST Type](#) 22  
[Overview \(synopsis\)](#) 6

## P

[Package file structure](#) 9  
Part enumeration  
    [application properties](#) 11  
    [data macro](#) 11  
    file properties  
        [core](#) 12

[form](#) 12  
[icon](#) 12  
[image](#) 13  
[image cluster](#) 13  
[instantiation form](#) 14  
[legacy application properties](#) 14  
[linked table](#) 14  
[list definition](#) 14  
[macro](#) 15  
[navigation pane](#) 15  
[object](#) 15  
[object metadata](#) 16  
[object properties](#) 16  
[preview image](#) 16  
[query](#) 17  
[relationship](#) 17  
[report](#) 17  
[resource](#) 18  
[template metadata](#) 18  
[theme](#) 18  
[variation](#) 19  
[visual basic references](#) 19  
[Xtable dataX](#) 18  
[Part enumeration file structure](#) 10  
[Part file structure](#) 9  
[Product behavior](#) 37

## R

References  
    [informative](#) 6  
    [normative](#) 5  
[Relationship file structure](#) 9  
[Relationship to protocols and other structures](#) 7

## S

[Schema list data](#) 24  
[Security - implementer considerations](#) 34  
Simple types  
    [ST Type](#) 22  
[Simple types template metadata](#) 21  
Structures  
    [file structure](#) 9  
    [list data](#) 24  
    [List Schema](#) 23

## T

Template metadata - complex types  
    [CT Template](#) 20  
[Template metadata - global attributes](#) 19  
Template metadata - global elements  
    [template](#) 19  
[Template metadata - simple types](#) 21  
[Tracking changes](#) 38  
Types - complex  
    [CT AccessObject](#) 21  
    [CT NameMap](#) 21  
    [CT Template](#) 20  
Types - simple  
    [ST Type](#) 22



## **V**

[Vendor-extensible fields](#) 8

[Versioning](#) 7

## **X**

[XML schema](#) 35