

# [MS-DSEXPRT]:

## Document Set Package Format

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## Revision Summary

Date	Revision History	Revision Class	Comments
7/13/2009	0.1	Major	Initial Availability
8/28/2009	0.2	Editorial	Revised and edited the technical content
11/6/2009	0.3	Editorial	Revised and edited the technical content
2/19/2010	1.0	Minor	Updated the technical content
3/31/2010	1.01	Editorial	Revised and edited the technical content
4/30/2010	1.02	Editorial	Revised and edited the technical content
6/7/2010	1.03	Editorial	Revised and edited the technical content
6/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
7/23/2010	1.04	None	No changes to the meaning, language, or formatting of the technical content.
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10/8/2012	3.0	Major	Significantly changed the technical content.
2/11/2013	3.0	None	No changes to the meaning, language, or formatting of the technical content.
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<b>Date</b>	<b>Revision History</b>	<b>Revision Class</b>	<b>Comments</b>
10/30/2014	3.2	Minor	Clarified the meaning of the technical content.
2/26/2016	4.0	Major	Significantly changed the technical content.
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7/15/2016	4.0	None	No changes to the meaning, language, or formatting of the technical content.
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7/24/2018	5.0	Major	Significantly changed the technical content.
10/1/2018	6.0	Major	Significantly changed the technical content.

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# 1 Introduction

The Document Set Package Format stores the contents of a document set that has been exported from a document library.

Sections 1.7 and 2 of this specification are normative. All other sections and examples in this specification are informative.

## 1.1 Glossary

This document uses the following terms:

**content type:** A named and uniquely identifiable collection of settings and fields that store metadata for individual items in a SharePoint list. One or more content types can be associated with a list, which restricts the contents to items of those types.

**content type identifier:** A unique identifier that is assigned to a **content type**.

**document library:** A type of list that is a container for documents and folders.

**field internal name:** A string that uniquely identifies a field in a content type or a SharePoint list.

**URL encode:** The process of encoding characters that have reserved meanings for a Uniform Resource Locator (URL), as described in [\[RFC1738\]](#).

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

## 1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

### 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.

[ISO/IEC29500-2:2011] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 2: Open Packaging Conventions", ISO/IEC 29500-2:2011, 2011, [http://www.iso.org/iso/iso\\_catalogue/catalogue\\_tc/catalogue\\_detail.htm?csnumber=59576](http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=59576)

[MS-WSSCAML] Microsoft Corporation, "[Collaborative Application Markup Language \(CAML\) Structure](#)".

[MS-WSSTS] Microsoft Corporation, "[Windows SharePoint Services](#)".

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

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

[XMLSCHEMA1] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "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

None.

### 1.3 Structure Overview (Synopsis)

This file format stores the contents of a document set outside a **document library**. A document set is a container for managing a collection of documents. Document sets allow the user to perform actions on a collection of documents such as synchronizing metadata across the documents and moving the document set to a different location. Document sets can be packaged to be moved to another location. This file format enables the document set to retain internal relationships and metadata properties. If the document set package is imported or moved to another location, it can be recreated as a document set.

### 1.4 Relationship to Protocols and Other Structures

The Document Set Package Format structure is implemented following specifications described in [\[ISO/IEC29500-2:2011\]](#). It uses relationship parts and a content type part to describe the contents of the package.

### 1.5 Applicability Statement

This file format maintains the metadata properties and relationships of items in a document set so that it can be moved to a different **document library** and retain its relationships and properties. The internal structure of a document set package file is not used or modified outside the document library that contains the document set. The document set package file is intended as a storage mechanism so that document sets can be archived or moved to another location.

### 1.6 Versioning and Localization

This file format has no generic localization mechanism. Individual structures in this file format can have attributes that are specific to localization.

### 1.7 Vendor-Extensible Fields

This file format consists of a collection of mandatory files in a fixed format. Vendors can add their own application-specific files or properties to the package. Those files **MUST** have names that are unique within the package.

## 2 Structures

A Document Set Package Format structure is implemented as specified in [\[ISO/IEC29500-2:2011\]](#) and consists of several XML package parts, as well as files of an arbitrary format that are contained in the package. For the document set itself and for each of the files that it contains, a property manifest is required. The property manifest is a list of all of the metadata properties for the document set or file that it describes. The property manifest for the document set MUST be located at `/Resources/Properties.xml`. The property manifests for individual files in the document set MUST use the following naming convention: `/Resources/FilePath/FileName.extension_Properties.xml`<sup><1></sup> where *FilePath* is the full path to the document, where the document set itself is the root and *FileName* is the name of the file to which the property manifest applies and *extension* is the extension of the file. For example, `document.docx` in the root of the document set would have a property manifest named `document.docx_Properties.xml` and be placed in the Resources directory, and `subfolder1/subfolder2/document.docx` would also have a property manifest named `document.docx_Properties.xml` but be placed in the Resources/subfolder1/subfolder2 directory. Additionally, each subfolder in the document set, will also have a property manifest located in `/FolderProps/FolderPath/_Properties.xml` where *FolderPath* is the full path to the folder starting from the root of the document set<sup><2></sup>; for example a subfolder named `subfolder2` with path `subfolder1/subfolder2/` would have a manifest file `/FolderProps/Subfolder1/subfolder2/_Properties.xml`.

All file names including path inside the document set package MUST be **URL-encoded**. If a file in the document set has a file name which, when URL-encoded, has length greater than or equal to 200 characters, the file name MUST be shortened to a new file name for use within the document set package. The new file name MUST be unique within the document set package and MUST be URL-encoded. The original file extension SHOULD<sup><3></sup> be retained. A mapping of the new file name to the original file name MUST be stored in the package part `/Resources/FileNameMapping.xml`. If there are multiple mappings, they are all kept in that package part. If there are no mappings, then that package part is not required.

File and package part relationships are specified in [\[ISO/IEC29500-2:2011\]](#), section 9.3. A document set package MUST contain the following relationship types:

- **<http://microsoft.com/docset/MainProperties>**: Main property manifest package part, which describes the document set properties.
- **<http://microsoft.com/docset/FileProperties>**: Property manifest package parts.

A document set package MUST contain the following relationship type if any file name is shortened to a new file name because the URL-encoded file name is greater than or equal to 200 characters:

- **<http://microsoft.com/docset/FileNameMapping>**: Package part that contains file name mappings.

A document set package MUST contain the following relationship type if it contains files other than the parts required for the document set package:

- **<http://microsoft.com/docset/File>**: Files that are contained in the document set.

A document set package MUST contain the following relationship type if it contains subfolders:

- **<http://microsoft.com/docset/Folder>**: Subfolders that are contained in the document set.

Also as specified in [\[ISO/IEC29500-2:2011\]](#), the content type of each package part and file MUST be defined in `/[Content_Types].xml`. A document set package can have but does not require all of the following content types be present. No other content types are allowed.

- **text/xml**: XML package parts

- **application/vnd.openxmlformats-package.relationships+xml**: Relationship parts
- **application/octet-stream**: Files

## 2.1 Property Manifest

A property manifest is a list of metadata properties and their values. One property manifest describes the properties of the document set itself, and additional property manifests describe the properties of the files and folders within the document set. A separate property manifest is required for each file and folder within the document set. Thus, if a document set contains two files and one subfolder, there are four property manifests: one for the document set, two for the files (one for each file), and one for the folder. Each property manifest for a file or the document set **MUST** be located at /Resources/. Each property manifest for a folder **MUST** be located at /FolderProps/

The root element of the property manifest is defined as follows:

```
<xs:element name="Properties" type="DSProperties" />
```

### 2.1.1 Namespaces

This specification defines and references XML namespaces using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific XML namespace prefix for each XML namespace that is used, the choice of a specific XML namespace prefix is implementation-specific and not significant for interoperability.

The following table described these namespaces.

Prefix	Namespace URI	Reference
xs	http://www.w3.org/2001/XMLSchema	<a href="#">[XMLSCHEMA1]</a> <a href="#">[XMLSCHEMA2]</a>
(none)	urn:deployment-manifest-schema	

### 2.1.2 Complex Types

#### 2.1.2.1 DSProperties

The **DSProperties** complex type specifies the **content type** name, **content type identifier**, and properties of the document set or file. This type is defined as follows:

```
<xs:complexType name="DSProperties">
  <xs:sequence>
    <xs:element name="ContentType" type="xs:string" />
    <xs:element name="ContentTypeName" type="xs:string" />
    <xs:element maxOccurs="unbounded" name="Property" type="DSProperty">
      </xs:element>
    </xs:sequence>
  </xs:complexType>
```

##### 2.1.2.1.1 Child Elements

**ContentType**: The **content type identifier** of the document set or file. It **MUST** be formatted as specified in [\[MS-WSSCAML\]](#) section 2.3.1.4.



**ContentTypeName:** The name of the content type of the document set or file, as specified in [MS-WSSCAML] section 2.4.1.

**Property:** A property of the document set or file, as specified in [MS-WSSTS] section 2.1.2.9. Lookup field values are ignored on import so it does not matter if they are exported.

### 2.1.2.2 DSProperty

The **DSProperty** complex type specifies the name and value of a property. This type is defined as follows:

```
<xs:complexType name="DSProperty">
  <xs:sequence>
    <xs:element name="Name" type="xs:string" />
    <xs:element name="Value" type="xs:string" />
    <xs:element name="Type" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

#### 2.1.2.2.1 Child Elements

**Name:** The **field internal name** of the property.

**Value:** The value of the property, which is a value appropriate for the Type as specified in [MS-WSSTS] section 2.3.

**Type:** The type of the property, as specified in [MS-WSSTS] section 2.1.2.9.1.

## 2.2 File Name Mapping

The file name mapping XML document specifies the list of documents from the document set whose names within the document set package have been shortened so as not to exceed the 200 character limit when encoded. For each such document, the file name mapping XML document contains an entry that maps the name of the document in the document set package to the original name of the document in the document set.

The root element of the file name mapping is defined as follows:

```
<xs:element name="Files" type="FileNameMapping" />
```

### 2.2.1 Namespaces

File name mapping does not require a namespace.

### 2.2.2 Complex Types

#### 2.2.2.1 FileNameMapping

The **FileNameMapping** complex type specifies the mapping from shortened file names to full, original file names, as follows.

```
<xs:complexType name="FileNameMapping">
  <xs:sequence>
    <xs:any minOccurs="0" maxOccurs="unbounded">
    </xs:any>
  </xs:sequence>
</xs:complexType>
```

```
</xs:sequence>  
</xs:complexType>
```

### 2.2.2.1.1 Child Elements

The **xs:any** part specifies a single mapping from a shortened file name to the original file name. The name of each **xs:any** part MUST be the shortened file name and the type of the **xs:any** part MUST be **originalFileName**.

### 2.2.2.2 OriginalFileName

The **OriginalFileName** complex type specifies the original file name. This type is defined as follows:

```
<xs:complexType name="originalFileName">  
  <xs:attribute name="originalFileName" type="xs:string" use="required" />  
</xs:complexType>
```

#### 2.2.2.2.1 Attributes

**OriginalFileName:** The original name of the file.

## 3 Structure Examples

### 3.1 Property Manifest

The following is an example of a property manifest with content type "Document Set A" and three properties.

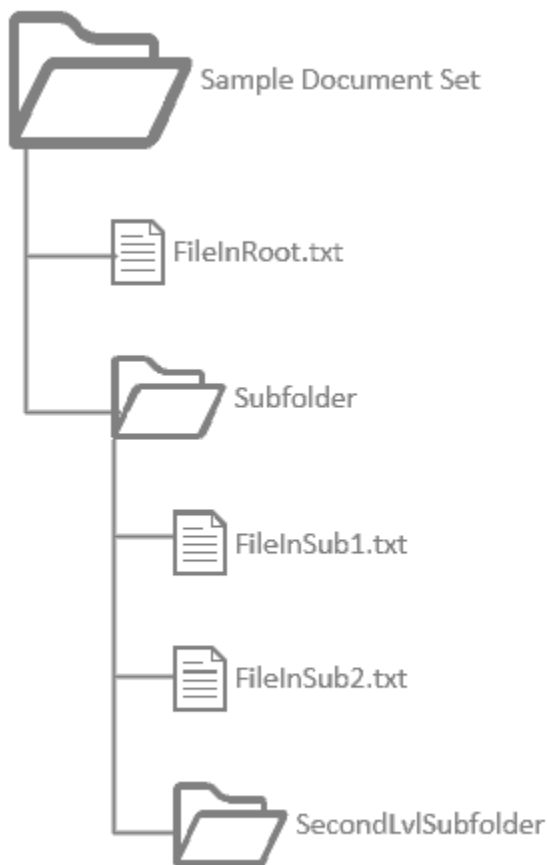
```
<Properties>
  <ContentType>0x0120D5200079D38D8510120240BF8C36A3DFF2A81C</ContentType>
  <ContentTypeName>Document Set A</ContentTypeName>
  <Property>
    <Name>ContentTypeId</Name>
    <Value>0x0120D5200079D38D8510120240BF8C36A3DFF2A81C</Value>
    <Type>ContentTypeId</Type>
  </Property>
  <Property>
    <Name>_ModerationComments</Name>
    <Value></Value>
    <Type>Note</Type>
  </Property>
  <Property>
    <Name>FileLeafRef</Name>
    <Value>Example</Value>
    <Type>File</Type>
  </Property>
</Properties>
```

### 3.2 File Name Mapping

The following is an example of a file name mapping with two mappings.

```
<Files>
  <_File_1792867176.docx originalFileName="examplefilename.docx" />
  <_File_1940293843.docx originalFileName="examplefilename2.docx" />
</Files>
```

### 3.3 Manifest and binary locations



**Figure 1: Document set file structure.**

For the shown document set structure, the resulting export file would contain the manifests and binaries in the following locations:

```
\FileInRoot.txt - File Binary  
\_rels\.rels - Relationships file describing contents of package  
\Subfolder\FileInSub1.txt - File Binary  
\Subfolder\FileInSub2.txt - File Binary  
\Resources\Properties.xml - Document set properties manifest  
\Resources\FileInRoot.txt_Properties.xml - File properties manifest  
\Resources\Subfolder\FileInSub1.txt_Properties.xml - File properties manifest  
\Resources\Subfolder\FileInSub2.txt_Properties.xml - File properties manifest  
\FolderProps\Subfolder\_Properties.xml - Folder properties manifest  
\FolderProps\Subfolder\SecondLvlSubfolder\_Properties.xml - Folder properties manifest
```

The property manifest sample in section 3.1 applies. The content of the relationship file is as follows:

```
<?xml version="1.0" encoding="utf-8"?>
  <Relationships xmlns="http://schemas.openxmlformats.org/package/2006/relationships">
    <Relationship Type="http://microsoft.com/docset/MainProperties"
Target="/Resources/Properties.xml" Id="R92c64673f7d14941" />
    <Relationship Type="http://microsoft.com/docset/File" Target="/FileInRoot.txt"
Id="Rc736d2b78b03447c" />
    <Relationship Type="http://microsoft.com/docset/Folder"
Target="/FolderProps/Subfolder/_Properties.xml" Id="R85675af82f594244" />
    <Relationship Type="http://microsoft.com/docset/File" Target="/Subfolder/FileInSub1.txt"
Id="Rd8106a36961f4846" />
    <Relationship Type="http://microsoft.com/docset/File" Target="/Subfolder/FileInSub2.txt"
Id="R527cebd070dd4b06" />
    <Relationship Type="http://microsoft.com/docset/Folder"
Target="/FolderProps/Subfolder/SecondLvlSubfolder/_Properties.xml" Id="R7bbfda245f624285" />
  </Relationships>
</pre>
```

## **4 Security**

### **4.1 Security Considerations for Implementers**

None.

### **4.2 Index of Security Fields**

None.

## 5 Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

- Microsoft SharePoint Server 2010
- Microsoft SharePoint Server 2013
- Microsoft SharePoint Server 2016
- Microsoft SharePoint Server 2019

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates 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.

[<1> Section 2](#): *FilePath* MUST be empty for SharePoint Server 2010.

[<2> Section 2](#): Folders are not allowed inside document sets in SharePoint Server 2010, so no property files for folders will be contained within the package.

[<3> Section 2](#): SharePoint Server 2010 does not retain the original file extension.

## 6 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

Section	Description	Revision class
<a href="#">5</a> Appendix A: Product Behavior	Updated list of supported products.	Major



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