

[MS-PRIMEPF]: Deployment Package Format

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Revision Summary

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1 Introduction

This document specifies the Deployment Package Format, a file format that is used to serialize website content.

Sections 1.7 and 2 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. All other sections and examples in this specification are informative.

1.1 Glossary

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

- access control list (ACL)**
- Coordinated Universal Time (UTC)**
- GUID**
- language code identifier (LCID)**
- security identifier (SID)**
- service**

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

- absolute URL**
- assembly**
- attachment**
- cabinet (.cab) file**
- cascading style sheet (CSS)**
- composite field index**
- content database**
- content type**
- content type identifier**
- CSS**
- deployment package**
- discussion board**
- document library**
- empty GUID**
- empty string**
- event host**
- event receiver**
- export operation**
- external group**
- farm**
- feature**
- field**
- folder identifier**
- gallery**
- generic list**
- Information Rights Management (IRM)**
- item**
- list**
- list form**
- List Form Web Part**
- list identifier**
- list item**
- list template**

List View Web Part
major version
master page
minor version
mobile device
moderation status
multilingual user interface (MUI)
navigation node
offline
personal view
personalized Web Parts Page
ProgID
provision
provisioned
publishing level
Quick Launch
read-only mode
Really Simple Syndication (RSS)
resource folder
resource identifier
resource token
role assignment
role definition
securable object
security group
security principal
security provider
server-relative URL
setup path
site
site collection
site definition
site identifier
site template
site-relative URL
store-relative form
store-relative URL
survey list
theme
thicket folder
time zone
top-level site
uncustomized
Uniform Resource Locator (URL)
user information list
view flag
Web Part
Web Part Page
Web Part type identifier
Welcome page
workflow
XML schema definition (XSD)

The following terms are specific to this document:

deployment system object: An object that is created as part of a site or site collection.

Examples of deployment system objects are root folders, catalogs, default pages, and galleries that are created during site or site collection creation. A deployment system object is not part of a template.

Farm Administrators group: A group of users that has permission to manage all of the servers in a server farm. Members of the Farm Administrators group can perform command-line operations and all of the administrative tasks that are available in Central Administration for the server or server farm.

sealed field: A named and uniquely identifiable field (2) that cannot be changed. A seal can be removed only by a site collection administrator.

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

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the technical documents, which are updated frequently. References to other documents include a publishing year when one is available.

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. 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.

[MC-FPSEWM] Microsoft Corporation, "[FrontPage Server Extensions: Website Management Protocol](#)".

[MS-CSOMSPT] Microsoft Corporation, "[SharePoint Client-Side Object Model Protocol](#)".

[MS-FPSE] Microsoft Corporation, "[FrontPage Server Extensions Remote Protocol](#)".

[MS-NRTP] Microsoft Corporation, "[.NET Remoting: Core Protocol](#)".

[MS-RMSI] Microsoft Corporation, "[Rights Management Services \(RMS\): ISV Extension Protocol](#)".

[MS-WPPS] Microsoft Corporation, "[Web Part Pages Web Service Protocol](#)".

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

[MS-WSSFO] Microsoft Corporation, "[Windows SharePoint Services \(WSS\): File Operations Database Communications Protocol](#)".

[MS-WSSFO2] Microsoft Corporation, "[Windows SharePoint Services \(WSS\): File Operations Database Communications Version 2 Protocol](#)".

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

[RFC1123] Braden, R., "Requirements for Internet Hosts - Application and Support", STD 3, RFC 1123, October 1989, <http://www.ietf.org/rfc/rfc1123.txt>

[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>

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

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

1.2.2 Informative References

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[MSDN-CAB] Microsoft Corporation, "Microsoft Cabinet Format", <http://msdn.microsoft.com/en-us/library/bb417343.aspx>

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

[MS-OFCGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)".

[MS-PUBWS] Microsoft Corporation, "[Publishing Web Service Protocol](#)".

[MS-SITESS] Microsoft Corporation, "[Sites Web Service Protocol](#)".

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

1.3 Protocol Overview (Synopsis)

A **deployment package (1)** contains a set of XML files and binary files. The XML files describe the objects in a content management system, such as **list items**, and describe their relationships. The binary files contain object data.

This set of files can be compressed into one or more **cabinet (.cab) files**, as described in [\[MSDN-CAB\]](#)

Following are some common uses for deployment packages (1):

- Transporting content from one server to another. One server exports the deployment package (1); another server imports it to create a replica of the exported Web content.
- Extracting content from a content management system to provide data to a natural language translation process.

- Backing up data from a content management system.

1.4 Relationship to Protocols and Other Structures

This structure specifies serialization of the abstract data structure described in [\[MS-WSSTS\]](#).

This structure is used by the following Web **services** as a data format:

- [\[MS-CDEPLOY\]](#): Content Deployment Remote Import Web Services Protocol
- [\[MS-PUBWS\]](#): Publishing Service Web Services Protocol
- [\[MS-SITESS\]](#): Sites Web Services Protocol

1.5 Applicability Statement

This file format can be used to transfer or store the structure and content of web **sites (2)** from within a single **site collection**.

1.6 Versioning and Localization

The deployment package (1) has a versioning element (see section [2.6.2.3](#)) that a reader can use to verify the schema version of the package. There is no guaranteed cross-version compatibility.

The deployment package (1) format has no generic localization mechanism. Individual structures within the deployment package (1) can have attributes that are specific to localization.

1.7 Vendor-Extensible Fields

The deployment package (1) consists of a collection of mandatory files in a fixed format. Vendors can add their own application-specific files to the deployment package (1). Those files MUST have unique names within the deployment package (1).

2 Structures

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The **XSD** in this specification provides a base description of the file format. The text that introduces the XSD specifies additional restrictions that reflect protocol behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **present**, and **not null**.

A deployment package (1) consists of several XML files that describe the objects as well as several binary content files that represent the file streams of those objects, and optionally vendor-added files of arbitrary format. From the stand point of this protocol, binary files are simply a pass through; they are just carried within the package. The mechanisms by which those files are created and their format are outside the scope of this protocol.

This set of files can optionally be compressed into one or more cabinet (.cab) files. If the compression option is not used, the deployment package (1) consists of the entire set of XML and binary files.

The XML files MUST be named as follows:

- **Manifest.xml**: The XML representation of the packaged objects. In case a maximum file size is set, and the content size is larger than the file size, additional chunks of data are included in additional files called Manifest n .xml, with n being an integer that starts at 1 and increments monotonically. Together this set of files are referred to as manifest files. This file MUST be present in the deployment package (1).
- **ExportSettings.xml**: A **list (1)** of settings and objects selected during the export of the data. This file MUST be present in the deployment package (1).
- **LookupListMap.xml**: A list (1) of links and lookups to other items that need to be processed when reading the package. If there are such links and lookups, this file MUST be present in the deployment package (1). Otherwise (if there are no such links and lookups) this file can be absent from the deployment package (1).
- **Requirements.xml**: A list (1) of resources that are required to process the contents of the package. This file MUST be present in the deployment package (1).
- **RootObjectMap.xml**: A list (1) of top-level objects in the package. This file MUST be present in the deployment package (1).
- **SystemData.xml**: Specifies version and structure of the package as well as the objects that are a part of the site collection and that are created by the system during the creation of a site collection and before a **site template** is applied, with the exception of the blank site template. This file MUST be present in the deployment package (1).
- **UserGroup.xml**: A list (1) of all users and groups in the deployment package (1). This file MUST be present in the deployment package (1).
- **ViewFormsList.xml**: A list (1) of all **List View Web Parts** and **List Form Web Parts** in the deployment package (1). If there are such List View Web Parts and List Form Web Parts, this file MUST be present in the deployment package (1). Otherwise (if there are no such List View Web Parts and List Form Web Parts) this file can be absent from the deployment package (1).

The binary content files are called *nnnnnnnn.dat*, where *nnnnnnnn* MUST be an 8-digit hexadecimal number starting with 00000000 and increase monotonically.

In the case a maximum file size is set and the exported data exceeds that file size, multiple files are created with a name `BaseFilePathn.cmp` with `BaseFilePath` being the name and path of the specified output file name and `n` being an integer starting with 1 and incrementing monotonically.

The following diagram shows a deployment package (1).

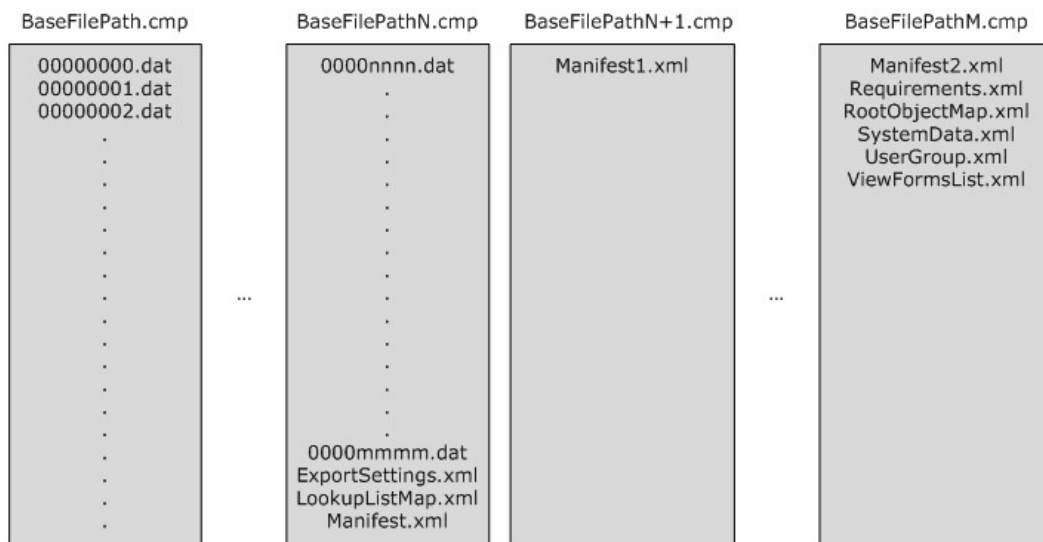


Figure 1: Deployment package chunking

2.1 Manifest.xml

This file (along with the other manifest files if they are present) lists (1) all the Web site (2) objects in the package. The root element is defined as follows:

```
<xs:element name="SPObjects" type="SPGenericObjectCollection" />
```

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 describes these namespaces.

| Prefix | Namespace URI | Reference |
|--------|----------------------------------|---|
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1] [XMLSCHEMA2] |
| (none) | urn:deployment-manifest-schema | |
| core | urn:deployment-manifest-schema | This specification uses the XML Schemas defined in [MS-WSSCAML] , but replaces the "http://schemas.microsoft.com/sharepoint/wire" targetNamespace of the schema with "urn:deployment- |

| Prefix | Namespace URI | Reference |
|--------|---------------|-------------------|
| | | manifest-schema." |

2.1.2 Complex Types

2.1.2.1 DeletedContentType

Specifies the **content type** deleted from a list (1).[<1>](#)

```
<xs:complexType name="DeletedContentType">
  <xs:attribute name="ContentTypeId" type="core:ContentTypeId"
    use="required" />
</xs:complexType>
```

2.1.2.1.1 Attributes

ContentTypeId: The identifier of the content type as specified in [\[MS-WSSCAML\]](#) section 2.3.1.4.

2.1.2.2 DeletedField

Specifies a **field (2)** that has been deleted from a list (1).

```
<xs:complexType name="DeletedField">
  <xs:attribute name="FieldId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
</xs:complexType>
```

2.1.2.2.1 Attributes

FieldId: The identifier of the field (2) that has been deleted from the list (1). This is an object reference corresponding to the **ID** attribute of a field (2), as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.[<2>](#)

2.1.2.3 DeletedView

Specifies the view deleted from the list (1).[<3>](#)

```
<xs:complexType name="DeletedView">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
</xs:complexType>
```

2.1.2.3.1 Attributes

Id: unique identifier of the view.

2.1.2.4 DeploymentAssignment

Specifies an association of a **security principal (2)** with a role.

```
<xs:complexType name="DeploymentAssignment">
  <xs:attribute name="RoleId" type="xs:int" use="required" />
  <xs:attribute name="PrincipalId" type="xs:int" use="required" />
</xs:complexType>
```

2.1.2.4.1 Attributes

RoleId: The identifier of the role. This is an object reference corresponding to the RoleId of a Role element of type **DeploymentRole** as specified in section [2.1.2.7](#). The referenced element MUST be contained in the deployment package (1).

PrincipalId: The identifier of the security principal (1). This identifier MUST either be equal to 1073741823 (which is the **Id** of the built-in System Account) or be an object reference corresponding to either the **Id** of a Group element of type **DeploymentGroup** in the UserGroup.xml file as specified in section [2.7.2.5](#) or to the **Id** of a User element of type **DeploymentUser** in the UserGroup.xml file as specified in section [2.7.2.3](#). If **PrincipalId** is an object reference, the referenced element MUST be contained in the deployment package (1).

2.1.2.5 DeploymentFieldTemplate

Specifies a field (2) object in a site (2).

```
<xs:complexType name="DeploymentFieldTemplate">
  <xs:sequence>
    <xs:element name="Field" type="core:FieldDefinition"
      minOccurs="1" maxOccurs="1" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Scope" type="core:RelativeUrl" use="required" />
  <xs:attribute name="Description" type="xs:string" use="required" />
  <xs:attribute name="Group" type="xs:string" use="required" />
  <xs:attribute name="PushChangesToList" type="core:truefalse_Only_Lowercase"
    use="optional" />
</xs:complexType>
```

2.1.2.5.1 Attributes

Id: The identifier of the field (2) in the site (2).

Name: The internal name of the field (2).

ParentWebId: The identifier of the site (2) that contains the field (2). This is an object reference corresponding to the **Id** of a site (2) as specified in section [2.1.2.58](#).

Scope: The **server-relative URL** of the site (2) that contains the field (2).

Description: The description of the field (2).

Group: The name of the group of fields (2) that contains the field (2).

PushChangesToList: Specifies whether to propagate changes to all lists (1) that use the field (2).<4>

2.1.2.5.2 Child Elements

Field: The definition of the field (2) as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.<5>

2.1.2.6 DeploymentGroupX

Specifies a modification to a **security group**.

```
<xs:complexType name="DeploymentGroupX">
  <xs:attribute name="Operation" use="required" >
    <xs:simpleType>
      <xs:restriction base="SecurityModificationType">
        <xs:enumeration value="Add" />
        <xs:enumeration value="Delete" />
        <xs:enumeration value="Update" />
        <xs:enumeration value="MemberAdd" />
        <xs:enumeration value="MemberDelete" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Id" type="xs:int" use="required" />
  <xs:attribute name="Name" type="String255NonEmpty" use="required" />
  <xs:attribute name="Description" type="String512" use="optional" />
  <xs:attribute name="OwnerLogin" type="String255" use="optional" />
  <xs:attribute name="OwnerIsUser" type="core:truefalse_Only_Lowercase"
    use="optional" default="true" />
  <xs:attribute name="UserId" type="xs:int" use="optional" />
  <xs:attribute name="UserLogin" type="String255" use="optional" />
  <xs:attribute name="RequestToJoinLeaveEmailSetting" type="String255"
    use="optional" />
  <xs:attribute name="OnlyAllowMembersViewMembership"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AllowMembersEditMembership"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AllowRequestToJoinLeave"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AutoAcceptRequestToJoinLeave"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
</xs:complexType>
```

2.1.2.6.1 Attributes

Operation: The type of the modification. This attribute MUST be one of the values described in the following table.

| Value | Description |
|--------------|--|
| Add | Add a new security group. |
| Delete | Delete an existing security group. |
| Update | Modify an existing security group. |
| MemberAdd | Add a member to an existing security group. |
| MemberDelete | Delete a member from an existing security group. |

Id: Reserved. This attribute MUST be ignored by the reader.

Name: The display name of the security group.

Description: The description of the security group.

OwnerLogin: The login name of the user who is the owner of the security group. This attribute MUST be present if **Operation** is either **Add** or **Update** and **OwnerIsUser** is **true**.

OwnerIsUser: Specifies whether the owner of the security group is a security principal (2). A value of **true** denotes that the owner is a security principal (2). A value of **false** denotes that the owner is a security group. This attribute MUST be present if **Operation** is **Add** or **Update**.

UserId: A user identifier. This attribute MUST be ignored by readers.

UserLogin: The login name of the security principal (2) to be added or deleted from the security group. This attribute MUST be present if **Operation** is **MemberAdd** or **MemberDelete**.

RequestToJoinLeaveEmailSetting: The e-mail address to which requests to join or leave the security group will be sent.

OnlyAllowMembersViewMembership: Specifies whether only members of the security group can view the list (1) of members. A value of **true** denotes that only members of the group can view the list (1) of members. A value of **false** denotes that all users can view the list (1) of members. If **Operation** has any value other than **Add**, readers MUST ignore this attribute.

AllowMembersEditMembership: Specifies whether all members of the security group can edit the list (1) of members. A value of **true** denotes that all group members can edit the list (1) of members. A value of **false** denotes that only the owner of the security group can edit the list (1) of members.

AllowRequestToJoinLeave: Specifies whether to allow requests to join or leave the security group. If **Operation** has any value other than **Add**, readers MUST ignore this attribute.

AutoAcceptRequestToJoinLeave: Specifies whether to automatically accept requests to join or leave the security group. If **Operation** has any value other than **Add**, readers MUST ignore this attribute.

2.1.2.7 DeploymentRole

Specifies a role.

```
<xs:complexType name="DeploymentRole">
  <xs:attribute name="RoleId" type="xs:int" use="required" />
  <xs:attribute name="Title" type="StringNonEmpty" use="required" />
</xs:complexType>
```

```

<xs:attribute name="Description" type="String512" use="required" />
<xs:attribute name="PermMask" type="xs:unsignedLong" use="required" />
<xs:attribute name="Hidden" type="core:truefalse_Only_Lowercase"
    use="required" />
<xs:attribute name="RoleOrder" use="optional" default="0">
    <xs:simpleType>
        <xs:restriction base='xs:int'>
            <xs:minInclusive value="0" />
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="Type" type="SPRoleType"
    use="optional" default="0" />
</xs:complexType>

```

2.1.2.7.1 Attributes

RoleId: The identifier of the role.

Title: The display name of the role.

Description: The description of the role.

PermMask: The permissions for the role. The meanings of the individual bits are specified in [\[MS-WSSFO2\]](#) section 2.2.2.14. [<6>](#)

Hidden: Specifies whether the role is hidden in the user interface.

RoleOrder: The display order value for this role. This attribute **MUST** be greater than or equal to 0. Roles are displayed in the user interface in ascending order of these values. Example: If the **RoleOrder** value of a role is 100, that role will be displayed after a role that has a **RoleOrder** value of 12.

Type: The **SPRoleType** of the role (see section [2.1.4.15](#)).

2.1.2.8 DeploymentRoleAssignment

Specifies a set of **role assignments** for an object.

```

<xs:complexType name="DeploymentRoleAssignment">
    <xs:sequence>
        <xs:element name="Assignment" type="DeploymentAssignment"
            minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>

    <xs:attribute name="ScopeId" type="core:UniqueIdentifierWithoutBraces"
        use="required" />
    <xs:attribute name="RoleDefWebId" type="core:UniqueIdentifierWithoutBraces"
        use="required" />
    <xs:attribute name="RoleDefWebUrl" type="String255" use="required" />
    <xs:attribute name="ObjectId" type="core:UniqueIdentifierWithoutBraces"
        use="required" />
    <xs:attribute name="ObjectType" type="ScopeObjectType" use="required" />
    <xs:attribute name="ObjectUrl" type="String255" use="required" />
    <xs:attribute name="AnonymousPermMask" type="xs:unsignedLong"
        use="required" />

```

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

2.1.2.8.1 Attributes

ScopeId: Reserved. Readers MUST ignore this attribute.

RoleDefWebId: The identifier of the site (2) containing the object. This is an object reference corresponding to the **Id** of an **SPWeb** element as specified in section [2.1.2.58](#). The referenced element MUST be in the deployment package (1).

RoleDefWebUrl: The **store-relative URL** of the site (2) containing the object. Readers MUST ignore this attribute.

ObjectId: The identifier of the object. This is an object reference corresponding to the **Id** of an element of the type specified by **ObjectType**. The referenced element MUST be in the deployment package (1).

ObjectType: The scope of the object as specified by section [2.1.4.7](#).

ObjectUrl: The store-relative URL of the object.

AnonymousPermMask: The permissions to the object for anonymous access. The meanings of the individual bits are specified in [\[MS-WSSFO2\]](#) section 2.2.2.14. [<7>](#)

2.1.2.8.2 Child Elements

Assignment: An assignment of a security principal (2) to a Role as specified by section [2.1.2.4](#).

2.1.2.9 DeploymentRoleAssignments

Specifies a collection of elements specified in section [2.1.2.8](#).

```
<xs:complexType name="DeploymentRoleAssignments">
  <xs:sequence>
    <xs:element name="RoleAssignment" type="DeploymentRoleAssignment"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.9.1 Child Elements

RoleAssignment: An object of type **DeploymentRoleAssignment** as specified in section [2.1.2.8](#).

2.1.2.10 DeploymentRoleAssignmentX

Specifies a modification to an object of type **DeploymentRoleAssignment** as specified in section [2.1.2.8](#).

```
<xs:complexType name="DeploymentRoleAssignmentX">
  <xs:attribute name="Operation" use="required">
    <xs:simpleType>
      <xs:restriction base="SecurityModificationType">
```

```

        <xs:enumeration value="RoleAssignmentAdd" />
        <xs:enumeration value="RoleAssignmentDelete" />
    </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="OperationCode" type="SPRoleChangeType"
    use="required" />
<xs:attribute name="ScopeId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
<xs:attribute name="RoleDefWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
<xs:attribute name="RoleDefWebUrl" type="String255" use="required" />
<xs:attribute name="ObjectId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
<xs:attribute name="ObjectType" type="ScopeObjectType" use="required" />
<xs:attribute name="ObjectUrl" type="String255" use="required" />
<xs:attribute name="AnonymousPermMask" type="xs:unsignedLong"
    use="required" />
<xs:attribute name="RoleName" type="String255" use="optional" />
<xs:attribute name="GroupTitle" type="String255" use="optional" />
<xs:attribute name="UserLogin" type="String255" use="optional" />
</xs:complexType>

```

2.1.2.10.1 Attributes

Operation: The type of the modification. This attribute MUST be one of the values described in the following table.

| Value | Description |
|----------------------|--|
| RoleAssignmentAdd | Add a user or group to the DeploymentRoleAssignment complex type (see section 2.1.2.8). |
| RoleAssignmentDelete | Delete a user or group from the DeploymentRoleAssignment complex type (see section 2.1.2.8). |

OperationCode: The sub-type of the modification. The supported values depend on the value of **Operation**. The values described in the following table are supported for each value of **Operation**.

| Operation | Supported Values for OperationCode |
|-----------------------------|---|
| RoleAssignmentAdd | Normal UniqueAssignment UniqueAssignment + CopyAssignment |
| RoleAssignmentDelete | Normal |

For the meaning of the supported values, see section [2.1.4.14](#).

ScopeId: Reserved. Readers MUST ignore this attribute.

RoleDefWebId: The identifier of the site (2) containing the object. This is an object reference corresponding to the **Id** of a **SPWeb** element in the Manifest.xml file as specified in section [2.1.2.58](#). The referenced element MUST be in the deployment package (1).

RoleDefWebUrl: The store-relative URL of the site (2) containing the object. Readers MUST ignore this attribute.

ObjectId: The identifier of the object. This is an object reference corresponding to the **Id** of an element of the type specified by **ObjectType** in the Manifest.xml file. The referenced element MUST be in the deployment package (1).

ObjectType: The scope of the object as specified in section [2.1.4.7](#).

ObjectUrl: The store-relative URL of the object.

AnonymousPermMask: The permissions to the object for anonymous access. The meanings of the individual bits are specified in [\[MS-WSSFO2\] section 2.2.2.14.<8>](#)

RoleName: The display name of the role. If present, this is an object reference corresponding to the **Title** attribute of either a **Role** element of type **DeploymentRole** (specified in section [2.1.2.7](#)) or **RoleX** element of type **DeploymentRoleX** (specified in section [2.1.2.12](#)).

GroupTitle: The display name of the group to add or remove from the **DeploymentRoleAssignment** complex type (section [2.1.2.8](#)). This MUST NOT be present if the **UserLogin** attribute is present.

UserLogin: The login name of the user to add or remove from the **DeploymentRoleAssignment** complex type (section [2.1.2.8](#)). This MUST NOT be present if the **GroupTitle** attribute is present.

If **OperationCode** is **Normal**, either **GroupTitle** or **UserLogin** MUST be present.

2.1.2.11 DeploymentRoles

Specifies a collection of roles.

```
<xs:complexType name="DeploymentRoles">
  <xs:sequence>
    <xs:element name="Role" type="DeploymentRole"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.11.1 Child Elements

Role: Specifies a role. The contents of this element MUST conform to the schema specified in section [2.1.2.7](#).

2.1.2.12 DeploymentRoleX

Specifies a modification to a role.

```
<xs:complexType name="DeploymentRoleX">
  <xs:attribute name="Operation" use="required" />
  <xs:simpleType>
    <xs:restriction base="SecurityModificationType">
      <xs:enumeration value="RoleAdd" />
      <xs:enumeration value="RoleDelete" />
      <xs:enumeration value="RoleUpdate" />
    </xs:restriction>
  </xs:simpleType>
</xs:complexType>
```



```

    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="OperationCode" type="SPRoleChangeType"
    use="required" />
  <xs:attribute name="WebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="WebUrl" type="String255" use="required" />
  <xs:attribute name="RoleId" type="xs:int" use="optional" />
  <xs:attribute name="Title" type="String255NonEmpty" use="optional" />
  <xs:attribute name="Description" type="String512" use="optional" />
  <xs:attribute name="PermMask" type="xs:unsignedLong" use="optional" />
  <xs:attribute name="Hidden" type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="RoleOrder" use="optional" default="0">
    <xs:simpleType>
      <xs:restriction base='xs:int'>
        <xs:minInclusive value="0" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Type" type="SPRoleType"
    use="optional" default="0" />
  <xs:attribute name="UserId" type="xs:int" use="optional" />
  <xs:attribute name="UserLogin" type="String255NonEmpty"
    use="optional" />
</xs:complexType>

```

2.1.2.12.1 Attributes

Operation: The type of modification. MUST be one of the values described in the following table.

| Value | Description |
|------------|--------------------------|
| RoleAdd | Add a new role. |
| RoleUpdate | Modify an existing role. |
| RoleDelete | Delete an existing role. |

OperationCode: The sub-type of the modification. The supported values depend on the value of **Operation**. The flags described in the following table are supported for each value of **Operation**.

| Operation | Supported values for OperationCode |
|------------|---|
| RoleAdd | Normal UniqueRoleDefinition UniqueRoleDefinition + CopyRoleDefinition UniqueRoleDefinition + CopyRoleDefinition + CopyAssignment |
| RoleUpdate | Normal |
| RoleDelete | Normal |

For the meaning of the supported values, see section [2.1.4.14](#).

WebId: The Web identifier of the site (2) to which this modification is to be made.

WebUrl: The store-relative URL of the site (2) where this modification is to be made. Readers MUST ignore this attribute.

RoleId: The identifier of the role. This attribute MUST be present if **Operation** is **RoleAdd** or **RoleUpdate**.

Title: The display name of the role. This attribute MUST be present if **Operation** is **RoleAdd** or **RoleUpdate**.

Description: The description of the role.

PermMask: The permissions for the role. The meanings of the individual bits are specified in [\[MS-WSSFO2\]](#) section 2.2.2.14.<9> MUST be present if **Operation** is **RoleAdd** or **RoleUpdate**.

Hidden: Specifies whether the role is hidden in the user interface. This attribute MUST be present if **Operation** is **RoleAdd** or **RoleUpdate**.

RoleOrder: The display order value for this role. This attribute MUST be greater than or equal to 0. Roles are displayed in the user interface in ascending order of these values. Example: If the **RoleOrder** value of a role is 100, that role will be displayed after a role that has a **RoleOrder** value of 12.

Type: The type of the role (see section [2.1.4.15](#)).

UserID: Reserved. MUST be ignored by the reader.

UserLogin: Reserved. MUST be ignored by the reader.

2.1.2.13 DeploymentUserX

Specifies a modification to a security principal (2) object.

```
<xs:complexType name="DeploymentUserX">
  <xs:attribute name="Operation" use="required" >
    <xs:simpleType>
      <xs:restriction base="SecurityModificationType">
        <xs:enumeration value="Add" />
        <xs:enumeration value="Delete" />
        <xs:enumeration value="Update" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Id" type="xs:int" use="required" />
  <xs:attribute name="Name" type="String255NonEmpty" use="required" />
  <xs:attribute name="Login" type="String255NonEmpty" use="required" />
  <xs:attribute name="Email" type="String255" use="optional" />
  <xs:attribute name="SystemId" type="xs:base64Binary" use="required" />
  <xs:attribute name="IsDomainGroup" type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="IsSiteAdmin" type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="MobilePhone" type="xs:string" use="optional" />
  <xs:attribute name="Flags" type="xs:int" use="optional" />
</xs:complexType>
```

2.1.2.13.1 Attributes

Operation: The type of modification MUST be one of the values described in the following table.

| Value | Description |
|--------|--|
| Add | Add a new security principal (2). |
| Update | Modify an existing security principal (2). |
| Delete | Delete an existing security principal (2). |

Id: The identifier of the security principal (2).

Name: The display name of the security principal (2).

Login: The login name of the security principal (2).

Email: The e-mail address of the security principal (2).

SystemId: The **security identifier (SID)** of the security principal (2).

IsDomainGroup: Specifies whether the security principal (2) represents an **external group**.

IsSiteAdmin: Specifies whether the security principal (2) is a site collection administrator. This attribute MUST be ignored by readers.

MobilePhone: Specifies the mobile phone number of the security principal (2).<10>

Flags: Specifies the way the security principal (2) is authenticated, as defined in [\[MS-WSSFO2\]](#) section 2.2.2.11.<11>

2.1.2.14 DeploymentWebStructure

Specifies the navigation structure and navigation bars associated with a particular site (2). For further description of the abstract data model that the element content represents, see [\[MS-WSSTS\]](#) section 2.1.2.16.

```
<xs:complexType name="DeploymentWebStructure">
  <xs:sequence>
    <xs:element name="Data">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Structure">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="Element"
                  type="DeploymentWebStructureElement"
                  minOccurs="0"
                  maxOccurs="unbounded" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="WebId" type="core:UniqueIdentifierWithoutBraces" />
</xs:complexType>
```

```

        use="required" />
<xs:attribute name="WebUrl" type="xs:string" use="required" />
<xs:attribute name="UseSharedNavigation"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
</xs:complexType>

```

2.1.2.14.1 Attributes

WebId: The identifier of the site (2) whose navigation structure is represented by the element.

WebUrl: The server-relative URL of the site (2) whose navigation structure is represented by the element.

UseSharedNavigation: Specifies whether the site (2) uses the navigation bars of its parent site (2).

2.1.2.14.2 Child Elements

Data: Wrapper for the **Structure** element.

Data.Structure: Container for zero or more **Element** elements that represent the nodes at the root of the navigation structure and navigation bars.

Data.Structure.Element: The node at the root of the navigation structure or a navigation bar.

2.1.2.15 DeploymentWebStructureElement

Specifies a single **navigation node**.

```

<xs:complexType name="DeploymentWebStructureElement">
  <xs:sequence>
    <xs:element name="MetaInfo" minOccurs="0" type="MetaDictionary" />
    <xs:element name="Element" type="DeploymentWebStructureElement"
        minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
  <xs:attribute name="Id" type="xs:int"
    use="required" />
  <xs:attribute name="DateTimeParented" type="xs:string"
    use="required" />
  <xs:attribute name="Type" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Page" />
        <xs:enumeration value="Link" />
        <xs:enumeration value="DynamicPage" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Name" type="String256"
    use="required" />
  <xs:attribute name="NameResource" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="520"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

```

```

        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="Url" type="xs:string"
    use="required" />
</xs:complexType>

```

2.1.2.15.1 Attributes

Id: The navigation node element identifier. The value **MUST** be greater than zero and **MUST** be unique amongst all other navigation nodes in the associated site (2).

DateTimeParented: The date and time at which the navigation node was last parented, that is, the last time at which the navigation node was made a child navigation node of a different navigation node, or the time at which it was first added beneath a particular navigation node. The value **MUST** be of the form "dd MMM yyyy hh:mm:ss ±tzos", where:

- "dd" is the two-digit date.
- "MMM" is the three-letter month abbreviation of the RFC 1123 date time format, specified in [\[RFC1123\]](#), section 5.2.14.
- "yyyy" is the four-digit year.
- "hh:mm:ss" specifies the two-digit hours, minutes, and seconds values.
- "±tzos" is the offset direction and four-digit **time zone** offset from GMT.

For example: 15 Jan 2008 12:32:30 -0800.

Type: Indicates whether the **Url** element points to a document within the site collection or to an arbitrary resource.

The following table defines the allowable string values for **Type**.

| Value | Description |
|-------------|---|
| Page | The navigation node is a link to a specific file or folder in the site collection, see Type 0 navigation node in [MS-WSSTS] section 2.1.2.16.1. |
| Link | The navigation node is an arbitrary URL-based link, see Type 1 navigation node in [MS-WSSTS] section 2.1.2.16.1. |
| DynamicPage | Deprecated; meaning is the same as that of Page. |

Name: The display name of the navigation node.

NameResource: The display name of the navigation node used for a **multilingual user interface (MUI)**. It **MUST** be a **resource token** or a **resource identifier**.[<12>](#)

Url: The **Uniform Resource Locator (URL)** to which the navigation node links. If the **Type** element is set to Page, the URL **MUST** be either a server-relative URL or a **site-relative URL**. If the **Type** element is set to Link, the URL **MUST** be either a server-relative URL, a site-relative URL, or an **absolute URL** which points to an arbitrary resource.

2.1.2.15.2 Child Elements

MetaInfo: A metadata dictionary associated with the navigation node.

Element: A child navigation node of this navigation node. This recursive definition allows the representation of arbitrary-depth hierarchical trees of navigation nodes.

2.1.2.16 Dictionary

Specifies a dictionary containing named properties and their values.

```
<xs:complexType name="Dictionary">
  <xs:sequence>
    <xs:element name="Property" type="DictionaryEntry"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.16.1 Child Elements

Property: Specifies a property. Each **Property.Name** attribute value MUST be unique within the dictionary.

2.1.2.17 DictionaryEntry

Specifies a named property and its value within a dictionary.

```
<xs:complexType name="DictionaryEntry">
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="Value" type="xs:string" use="optional" />
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="Type" type="SPDictionaryEntryValueType"
    default="String" use="optional" />
  <xs:attribute name="Access" type="SPDictionaryEntryAccess"
    default="ReadWrite" use="optional" />
</xs:complexType>

<xs:simpleType name="SPDictionaryEntryValueType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="String" />
    <xs:enumeration value="Integer" />
    <xs:enumeration value="Time" />
    <xs:enumeration value="StringVector" />
    <xs:enumeration value="Boolean" />
    <xs:enumeration value="FileSystemTime" />
    <xs:enumeration value="IntVector" />
    <xs:enumeration value="Double" />
    <xs:enumeration value="LongText" />
    <xs:enumeration value="Empty" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPDictionaryEntryAccess">
  <xs:restriction base="xs:string">
```

```

    <xs:enumeration value="ReadOnly" />
    <xs:enumeration value="ReadWrite" />
  </xs:restriction>
</xs:simpleType>

```

2.1.2.17.1 Attributes

Name: The name of the property. Each name MUST be unique within a dictionary.

Value: The value of the property. The value MUST conform to the additional restrictions specified in the following table based on the value of the **Type** attribute.

| Value of Type attribute | Restrictions |
|-------------------------|--|
| String | MUST conform to the schema of the xs:string simple type. |
| Integer | MUST conform to either the schema of the xs:int simple type or to the INT format specified in [MS-FPSE] , Section 2.2.2.1.2. |
| Time | MUST conform to either the schema of the xs:datetime simple type or to the Greenwich Mean Time (GMT) format specified in [RFC1123] , Section 5.2.14 |
| StringVector | MUST conform to the METADICT-STRING-VECTOR format specified in [MS-FPSE] section 2.2.2.2.11. |
| Boolean | MUST conform to the schema of the xs:boolean simple type. |
| FileSystemTime | MUST conform to either the schema of xs:datetime simple type, or to the Greenwich Mean Time (GMT) format specified in [RFC1123] , Section 5.2.14 |
| IntVector | MUST conform to the METADICT-INT-VECTOR format specified in [MS-FPSE] section 2.2.2.2.11. |
| Double | MUST conform to either the schema of the xs:double simple type or the DOUBLE format specified in [MS-FPSE] section 2.2.2.1.4. |
| LongText | MUST conform to the schema of the xs:string simple type. |
| Empty | MUST be ignored by readers, which MUST treat this value as an empty string (2) . |

Id: The identifier of the property.

Type: The type of the property. MUST be one of the values described in the following table.

| Value | Description |
|--------------|----------------------|
| String | String data type. |
| Integer | Integer data type. |
| Time | Datetime data type. |
| StringVector | An array of strings. |
| Boolean | Boolean data type. |

| Value | Description |
|----------------|-----------------------|
| FileSystemTime | Datetime data type. |
| IntVector | An array of integers. |
| Double | Double data type. |
| LongText | String data type. |
| Empty | Empty data type. |

Access: Specifies the type of access that end users have for the property. MUST be one of the values described in the following table.

| Value | Description |
|-----------|--|
| ReadOnly | This property can be read by end users, but end users cannot modify this property. |
| ReadWrite | This property can be read and modified by end users. |

2.1.2.18 FieldDataCollection

Specifies a collection of fields (2) associated with a list items.

```
<xs:complexType name="FieldDataCollection">
  <xs:sequence>
    <xs:element name="Field" type="FieldDictionaryEntry"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.18.1 Child Elements

Field: The name and value of a field (2).

2.1.2.19 FieldDictionaryEntry

Specifies the name and value of a field (2).

```
<xs:complexType name="FieldDictionaryEntry">
  <xs:attribute name="FieldId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="Value" type="xs:string" use="optional" />
  <xs:attribute name="Value2" type="xs:string" use="optional" />
</xs:complexType>
```

2.1.2.19.1 Attributes

FieldId: The identifier of the field (2). This is an object reference corresponding to the **ID** attribute of a field (2), as specified in [\[MS-WSSFO2\]](#) section 2.2.8.3.3.<13>

Name: The name of the field (2).

Value: The value of the field (2).

Value2: If **Value** is a URL, this is the display text for the URL. Otherwise, this attribute SHOULD NOT be present and MUST be ignored by readers.

2.1.2.20 FieldReferenceDefinitions

Specifies the field (2) links associated with a content type.

```
<xs:complexType name="FieldReferenceDefinitions">
  <xs:sequence>
    <xs:element name="FieldRef" type="core:FieldRefDefinitionCT"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.20.1 Child Elements

FieldRef: A reference to a field (2) ([\[MS-WSSCAML\]](#) section 2.4.3) associated with the content type.

2.1.2.21 ListDeletedContentTypes

Specifies a collection of content types that have been deleted from a list (1). [<14>](#)

```
<xs:complexType name="ListDeletedContentTypes">
  <xs:sequence>
    <xs:element name="DeletedContentType" type="DeletedContentType"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.21.1 Child Elements

DeletedContentType: Specifies the content type deleted from the list (1).

2.1.2.22 ListDeletedFields

Specifies a collection of fields (2) that have been deleted from a list (1).

```
<xs:complexType name="ListDeletedFields">
  <xs:sequence>
    <xs:element name="DeletedField" type="DeletedField"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.22.1 Child Elements

DeletedField: A field (2) that has been deleted from a list (1).

2.1.2.23 ListDeletedViews

Specifies the views of the list (1) which have been deleted. [<15>](#)

```
<xs:complexType name="ListDeletedViews">
  <xs:sequence>
    <xs:element name="DeletedView" type="DeletedView"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.23.1 Child Elements

DeletedView: Specifies a view deleted from the list (1).

2.1.2.24 MetaDictionary

Specifies a dictionary with string keys and strongly-typed values. The values also have read/write constraints. Each entry in the dictionary is referred to as a key-value pair.

```
<xs:complexType name="MetaDictionary">
  <xs:sequence>
    <xs:element name="MetaKey" minOccurs="0" maxOccurs="unbounded">
      <xs:complexType>
        <xs:attribute name="Name" type="xs:string" />
        <xs:attribute name="Value" type="xs:string" />
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

2.1.2.24.1 Child Elements

MetaKey: A key-value pair in a metadata dictionary.

MetaKey.Name: The key of the key-value pair.

MetaKey.Value: The value of the key-value pair. Values are strongly typed and the following types (with corresponding type code in parentheses) are supported:

- Integer (I)
- Double (D)
- Boolean (B)
- String (S)
- Date-time (T)

- Integer array (U)
- String array (V)

Values also carry an access constraint. Constraints **MUST** be preserved by the consumer and are intended to be used to control subsequent access to the data by way of a protocol external to this specification. These constraints are described in the following table.

| Constraint (constraint code) | Meaning |
|------------------------------|---|
| Ignore (X) | Reader is intended to ignore the value |
| Read (R) | Reader is intended to read the value but is not intended to write the value |
| Write (W) | Reader is intended to read and write the value |

Note that this specification requires only that constraints are preserved along with their corresponding values; any requirement for enforcement of these constraints is specified by the protocol that provides access to the data. For an example of such a protocol, see [\[MS-FPSE\]](#).

Values are serialized as XSD strings and **MUST** be comprised of a type code, followed by a constraint code, followed by a vertical bar (|), followed by a value. The format of the value depends on the type code, the details of which are given in the following table.

| Permissible type (type code) | Value encoding constraints |
|------------------------------|---|
| Integer (I) | MUST conform to INT primitive data type format, as specified in [MS-FPSE] section 2.2.2.1.2 |
| Boolean (B) | MUST conform to BOOLEAN primitive data type format, as specified in [MS-FPSE] section 2.2.2.1.3 |
| Double (D) | MUST conform to DOUBLE primitive data type format, as specified in [MS-FPSE] section 2.2.2.1.4 |
| String (S) | MUST conform to STRING primitive data type format, as specified in [MS-FPSE] section 2.2.2.1.5 |
| Date-time (T) | MUST conform to Greenwich Mean Time (GMT) format, as specified in [RFC1123] section 5.2.14. |
| Integer array (U) | MUST conform to METADICT-INT-VECTOR format, as specified in [MS-FPSE] section 2.2.2.2.11. |
| String array (V) | MUST conform to METADICT-STRING-VECTOR format, as specified in [MS-FPSE] section 2.2.2.2.11. |

2.1.2.25 SPAttachment

Specifies an **attachment** to a list item.

```
<xs:complexType name="SPAttachment">
  <xs:sequence>
    <xs:element name="Properties" type="Dictionary" minOccurs="0" />
  </xs:sequence>
</xs:complexType>
```

```

<xs:attribute name="Name" type="String255NonEmpty" use="required" />
<xs:attribute name="Url" type="String256" use="required" />
<xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
  use="optional" />
<xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
  use="optional" />
<xs:attribute name="FileValue" type="PackageFileName" use="required" />
<xs:attribute name="Author" type="xs:int" use="optional" />
<xs:attribute name="ModifiedBy" type="xs:int" use="optional" />
<xs:attribute name="TimeCreated" type="xs:dateTime" use="optional" />
<xs:attribute name="TimeLastModified" type="xs:dateTime" use="optional" />
<xs:attribute name="FailureMessage" type="xs:string" use="optional" />
</xs:complexType>

```

2.1.2.25.1 Attributes

Name: The original file name of the attachment.

Url: The site-relative URL of the attachment.

Id: The identifier of the attachment.

ParentWebId: The identifier of the site (2) containing the list item. This is an object reference corresponding to the **Id** of a site (2) as specified in section [2.1.2.58](#). The referenced element **MUST** be in the deployment package (1).

FileValue: The name of the binary content file for the attachment.

Author: The user identifier of the author of the attachment.

ModifiedBy: The user identifier of the user who last modified the attachment.

TimeCreated: The creation time of the attachment in **Coordinated Universal Time (UTC)** format.

TimeLastModified: The last modification time of the attachment in **UTC** format.

FailureMessage: The failure message, if any, resulting from the attempt to add the attachment to the deployment package (1). If the attempt fails and if the creator of the package decides not to terminate the creation of the package in response to the error, this attribute **MUST** be present and the writer **MUST** set the value to the error message string that is generated by the failure. Otherwise, this attribute **MUST NOT** be present. Readers **MUST** ignore the entire SPAttachment element when this attribute is present.

2.1.2.25.2 Child Elements

Properties: The properties of the attachment.

2.1.2.26 SPAttachmentCollection

Specifies a collection of attachments.

```

<xs:complexType name="SPAttachmentCollection">
  <xs:sequence>

```

```

        <xs:element name="Attachment" type="SPAttachment"
            minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

```

2.1.2.26.1 Child Elements

Attachment: An attachment. This element MUST conform to the XML Schema of the **SPAttachment** complex type specified in section [2.1.2.25](#).

2.1.2.27 SPContentType

Specifies a content type object.

```

<xs:complexType name="SPContentType">
  <xs:all>
    <xs:element name="Folder" type="core:FolderReference"
        minOccurs="0" maxOccurs="1" />
    <xs:element name="FieldRefs" type="FieldReferenceDefinitions"
        minOccurs="0" maxOccurs="1" />
    <xs:element name="Fields" type="core:FieldDefinitions"
        minOccurs="0" maxOccurs="1" />
    <xs:element name="XmlDocuments"
        type="core:XmlDocumentDefinitionCollection"
        minOccurs="0" maxOccurs="1" />
    <xs:element name="DocumentTemplate"
        type="core:ContentTypeDocumentTemplateDefinition"
        minOccurs="0" maxOccurs="1" />
    <xs:element name="EventReceivers"
        type="SPEventReceiverDefinitionCollection"
        minOccurs="0" maxOccurs="1" />
  </xs:all>
  <xs:attribute name="ID" type="core:ContentTypeId" use="required" />
  <xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
      use="required"/>
  <xs:attribute name="ListId" type="core:UniqueIdentifierWithoutBraces"
      use="optional"/>
  <xs:attribute name="Name" type="xs:string" use="optional" default=""/>
  <xs:attribute name="Group" type="xs:string" use="optional" default=""/>
  <xs:attribute name="Description" type="xs:string"
      use="optional" default=""/>
  <xs:attribute name="NewDocumentControl" type="xs:string"
      use="optional" default=""/>
  <xs:attribute name="RequireClientRenderingOnNew" type="core:TRUEFALSE"
      use="optional" default="TRUE"/>
  <xs:attribute name="Scope" type="xs:string" />
  <xs:attribute name="NextChildByte" type="xs:short" />
  <xs:attribute name="ReadOnly" type="core:TRUE_Case_Sensitive_Else_Anything"
      use="optional" default="false"/>
  <xs:attribute name="Locs">
    <xs:simpleType>
      <xs:restriction base="xs:boolean">
        <xs:pattern value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>

```

```

<xs:attribute name="Hidden" type="core:TRUE_Case_Sensitive_Else_Anything"
  use="optional" default="false"/>
<xs:attribute name="Sealed" type="core:TRUE_Case_Sensitive_Else_Anything"
  use="optional" default="false"/>
<xs:attribute name="Version" type="xs:nonNegativeInteger"
  use="optional" default="0"/>
<xs:attribute name="FeatureId" type="core:UniqueIdentifierWithBraces"/>
</xs:complexType>

```

2.1.2.27.1 Attributes

ID: Identifier for the content type.

ParentWebId: Identifier of the site (2) containing the content type. This is an object reference corresponding to the **Id** of a site (2) as specified in section [2.1.2.58](#).

ListId: The identifier of the list (1) containing the content type. If the parent of the content type is a list (1), this is an object reference corresponding to the **Id** of a list (1) as specified in section [2.1.2.44](#). Otherwise, this attribute MUST NOT be present.

Name: The name of the content type.

Group: The name of the content type group which contains the content type.

Description: The description of the content type.

NewDocumentControl: The programmatic identifier (**ProgID**) for the application that is launched when creating new documents of this content type.

RequireClientRenderingOnNew: Specifies whether the application specified by **NewDocumentControl** is launched when new items of this content type are created.

Scope: The server-relative URL of the parent site (2) or list (1) object that contains the content type.

NextChildByte: The next available byte an inherited content type changes. This value MUST be a number between 0 and 255. [<16>](#)

ReadOnly: Specifies whether the content type can be edited. If the content type is not **ReadOnly**, the attribute MUST NOT be present.

Locs: Specifies whether the content type has any localizations.

Hidden: Specifies whether the content type appears in UI. If the content type is not Hidden, this attribute MUST NOT be present.

Sealed: Specifies whether other content types are prohibited from inheriting from this content type. If the content type is not sealed, the attribute MUST be absent.

Version: The version of the content type.

FeatureId: The identifier of the **feature** which this content type is associated with.

2.1.2.27.2 Child Elements

Folder: The **resource folder** used by this content type. This element is specified in [\[MS-WSSCAML\]](#) section 2.4.7.

FieldRefs: The references to the fields (2) associated with this content type. This element is specified in section [2.1.2.20](#).

Fields: The fields (2) associated with the parent list (1) of this content type that correspond to the field (2) links in the content type. If the parent object of the content type is not a list (1), this element MUST NOT be present. This element is specified in [\[MS-WSSCAML\]](#) section 2.3.2.9.

XmlDocuments: Specifies the XML documents present in this content type. This element is specified in [\[MS-WSSCAML\]](#) section 2.4.12.

DocumentTemplate: Specifies the document template of the content type used when creating a new instance of the content type. This element is specified in [\[MS-WSSCAML\]](#) section 2.4.4.

EventReceivers: The collection of **event receivers** that are registered for the content type. The value of the **HostType** attribute of all child elements within this collection MUST be "ContentType".

2.1.2.27.3 Structure Restrictions and Conditions

In addition to the restrictions and conditions specified in this document, the attributes of the **SPContentType** complex type have the same restrictions and conditions as specified in [\[MS-WSSCAML\]](#) section 2.4.1.2.

2.1.2.28 SPDocumentLibrary

Specifies a **document library**.

```
<xs:complexType name="SPDocumentLibrary">
  <xs:complexContent>
    <xs:extension base="SPList">
      <xs:attribute name="DocumentTemplateUrl" type="String261" />
      <xs:attribute name="EmailInsertsFolder" type="String255" />
      <xs:attribute name="IsCatalog"
        type="core:truefalse_Only_Lowercase"/>
      <xs:attribute name="ThumbnailSize" type="xs:int" />
      <xs:attribute name="WebImageHeight" type="xs:int" />
      <xs:attribute name="WebImageWidth" type="xs:int" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

2.1.2.28.1 Attributes

The **SPDocumentLibrary** complex type extends the **SPList** complex type adding the following attributes. The **SPList.BaseType** attribute MUST be "DocumentLibrary".

DocumentTemplateUrl: A server-relative URL of the default template to use when a document is created in this document library. This attribute MUST begin with a slash (/).

EmailInsertsFolder: Reserved. SHOULD NOT [<17>](#) be used. If present MUST be ignored.

IsCatalog: Specifies whether the document library is a **gallery (1)**.

ThumbnailSize: Integer used by the document library to determine the rendering size of an image thumbnail. [<18>](#)

WebImageHeight: Integer used by the document library to determine the rendering height of an image. [<19>](#)

WebImageWidth: Integer used by the document library to determine the rendering width of an image. [<20>](#)

2.1.2.29 SPEventReceiverDefinition

Specifies an event receiver.

```
<xs:complexType name="SPEventReceiverDefinition">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Name" type="String256" use="required" />
  <xs:attribute name="WebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="HostId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="HostType" type="SPEventHostType" use="required" />
  <xs:attribute name="Synchronization" type="SPEventReceiverSynchronization"
    use="optional" />
  <xs:attribute name="Type" type="SPEventReceiverType" use="required" />
  <xs:attribute name="SequenceNumber" type="xs:unsignedShort"
    use="required" />
  <xs:attribute name="Url" type="String256" use="optional" />
  <xs:attribute name="Assembly" type="String256" use="optional" />
  <xs:attribute name="Class" type="String256" use="optional" />
  <xs:attribute name="SolutionId"
    type="core:UniqueIdentifierWithOrWithoutBraces"
    use="optional" />
  <xs:attribute name="Data" type="String256" use="optional" />
  <xs:attribute name="Filter" type="String256" use="optional" />
  <xs:attribute name="Credential" type="xs:int" use="required" />
  <xs:attribute name="ItemId" type="xs:int" use="optional" />
</xs:complexType>

<xs:simpleType name="SPEventHostType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Site" />
    <xs:enumeration value="Web" />
    <xs:enumeration value="List" />
    <xs:enumeration value="ListItem" />
    <xs:enumeration value="ContentType" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPEventReceiverType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ItemAdding" />
    <xs:enumeration value="ItemUpdating" />
    <xs:enumeration value="ItemDeleting" />
    <xs:enumeration value="ItemCheckingIn" />
    <xs:enumeration value="ItemCheckingOut" />
  </xs:restriction>
</xs:simpleType>
```



```
<xs:enumeration value="ItemUncheckingOut" />
<xs:enumeration value="ItemAttachmentAdding" />
<xs:enumeration value="ItemAttachmentDeleting" />
<xs:enumeration value="ItemFileMoving" />
<xs:enumeration value="ItemVersionDeleting" />
<xs:enumeration value="FieldAdding" />
<xs:enumeration value="FieldUpdating" />
<xs:enumeration value="FieldDeleting" />
<xs:enumeration value="ListAdding" />
<xs:enumeration value="ListDeleting" />
<xs:enumeration value="SiteDeleting" />
<xs:enumeration value="WebDeleting" />
<xs:enumeration value="WebMoving" />
<xs:enumeration value="WebAdding" />
<xs:enumeration value="GroupAdding" />
<xs:enumeration value="GroupUpdating" />
<xs:enumeration value="GroupDeleting" />
<xs:enumeration value="GroupUserAdding" />
<xs:enumeration value="GroupUserDeleting" />
<xs:enumeration value="RoleDefinitionAdding" />
<xs:enumeration value="RoleDefinitionUpdating" />
<xs:enumeration value="RoleDefinitionDeleting" />
<xs:enumeration value="RoleAssignmentAdding" />
<xs:enumeration value="RoleAssignmentDeleting" />
<xs:enumeration value="InheritanceBreaking" />
<xs:enumeration value="InheritanceRestoring" />
<xs:enumeration value="ItemAdded" />
<xs:enumeration value="ItemUpdated" />
<xs:enumeration value="ItemDeleted" />
<xs:enumeration value="ItemCheckedIn" />
<xs:enumeration value="ItemCheckedOut" />
<xs:enumeration value="ItemUncheckedOut" />
<xs:enumeration value="ItemAttachmentAdded" />
<xs:enumeration value="ItemAttachmentDeleted" />
<xs:enumeration value="ItemFileMoved" />
<xs:enumeration value="ItemFileConverted" />
<xs:enumeration value="ItemFileTransformed" />
<xs:enumeration value="ItemVersionDeleted" />
<xs:enumeration value="FieldAdded" />
<xs:enumeration value="FieldUpdated" />
<xs:enumeration value="FieldDeleted" />
<xs:enumeration value="ListAdded" />
<xs:enumeration value="ListDeleted" />
<xs:enumeration value="SiteDeleted" />
<xs:enumeration value="WebDeleted" />
<xs:enumeration value="WebMoved" />
<xs:enumeration value="WebProvisioned" />
<xs:enumeration value="GroupAdded" />
<xs:enumeration value="GroupUpdated" />
<xs:enumeration value="GroupDeleted" />
<xs:enumeration value="GroupUserAdded" />
<xs:enumeration value="GroupUserDeleted" />
<xs:enumeration value="RoleDefinitionAdded" />
<xs:enumeration value="RoleDefinitionUpdated" />
<xs:enumeration value="RoleDefinitionDeleted" />
<xs:enumeration value="RoleAssignmentAdded" />
<xs:enumeration value="RoleAssignmentDeleted" />
<xs:enumeration value="InheritanceBroken" />
<xs:enumeration value="InheritanceRestored" />
```

```

        <xs:enumeration value="EmailReceived" />
        <xs:enumeration value="ContextEvent" />
    </xs:restriction>
</xs:simpleType>

```

2.1.2.29.1 Attributes

Id: Identifier of the event receiver.

Name: Name of the event receiver.

WebId: Identifier of the site (2) that contains the **event hosts**.

HostId: Identifier of the event host with which the event receiver is associated.

HostType: Type of object used as an event host for the event receiver. This attribute MUST be one of the values described in the following table.

| HostType value | Event Host is |
|----------------|-----------------|
| Site | Site collection |
| Web | Site |
| List | List |
| ListItem<21> | List item |
| ContentType | Content type |

Type: Specifies when the handler for this event is invoked. MUST be one of the values described in the following table.<22>

| Value | Description |
|------------------------|---|
| ItemAdding | The event receiver is invoked before a list item is added. |
| ItemUpdating | The event receiver is invoked before a list item is updated. |
| ItemDeleting | The event receiver is invoked before a list item is deleted. |
| ItemCheckingIn | The event receiver is invoked before a list item is checked in. |
| ItemCheckingOut | The event receiver is invoked before a list item is checked out. |
| ItemUncheckingOut | The event receiver is invoked before a list item checkout is reverted. |
| ItemAttachmentAdding | The event receiver is invoked before an attachment to a list item is added. |
| ItemAttachmentDeleting | The event receiver is invoked before an attachment to a list item is deleted. |
| ItemFileMoving | The event receiver is invoked before a document is moved. |
| ItemVersionDeleting | This event receiver is invoked before a version of a list item is deleted. |
| FieldAdding | The event receiver is invoked before a field (2) is added to the list (1) schema. |

| Value | Description |
|------------------------|--|
| FieldUpdating | The event receiver is invoked before a field (2) is updated in the list (1) schema. |
| FieldDeleting | The event receiver is invoked before a field (2) is deleted from the list (1) schema. |
| ListAdding<23> | The event receiver is invoked before a list (1) is added |
| ListDeleting<24> | The event receiver is invoked before a list (1) is deleted |
| SiteDeleting | The event receiver is invoked before a site collection is deleted. |
| WebAdding<25> | The event receiver is invoked before a site (2) is added |
| WebDeleting | The event receiver is invoked before a site (2) is deleted. |
| WebMoving | The event receiver is invoked before a site (2) is moved. |
| GroupAdding | This event receiver is invoked before a security group is added. |
| GroupUpdating | This event receiver is invoked before a security group is updated. |
| GroupDeleting | This event receiver is invoked before a security group is deleted. |
| GroupUserAdding | This event receiver is invoked before a user is added to a security group. |
| GroupUserDeleting | This event receiver is invoked before a user is removed from a security group. |
| RoleDefinitionAdding | This event receiver is invoked before a role definition is added. |
| RoleDefinitionUpdating | This event receiver is invoked before a role definition is updated. |
| RoleDefinitionDeleting | This event receiver is invoked before a role definition is deleted. |
| RoleAssignmentAdding | This event receiver is invoked before a role assignment is added. |
| RoleAssignmentDeleting | This event receiver is invoked before a role assignment is deleted. |
| InheritanceBreaking | This event receiver is invoked before a securable object stops inheriting permissions from its parent or containing object. |
| InheritanceRestoring | This event receiver is invoked before a securable object starts inheriting permissions from its parent or containing object. |
| ItemAdded | The event receiver is invoked after a list item is added. |
| ItemUpdated | The event receiver is invoked after a list item is updated. |
| ItemDeleted | The event receiver is invoked after a list item is deleted. |
| ItemCheckedIn | The event receiver is invoked after a list item is checked in. |
| ItemCheckedOut | The event receiver is invoked after a list item is checked out. |
| ItemUncheckedOut | The event receiver is invoked after a list item check out is reverted. |
| ItemAttachmentAdded | The event receiver is invoked after an attachment is added to a list item. |
| ItemAttachmentDeleted | The event receiver is invoked after an attachment is deleted from a list item. |

| Value | Description |
|-----------------------|---|
| ItemFileMoved | The event receiver is invoked after a document is moved. |
| ItemFileConverted | The event receiver is invoked after a document is transformed by the document transformation feature. |
| ItemVersionDeleted | This event receiver is invoked after a version of a list item is deleted. |
| FieldAdded | The event receiver is invoked after a field (2) is added to the list (1) schema. |
| FieldUpdated | The event receiver is invoked after a field (2) is updated in the list (1) schema. |
| FieldDeleted | The event receiver is invoked after a field (2) is deleted from the list (1) schema. |
| ListAdded<26> | The event receiver is invoked after a list (1) is added. |
| ListDeleted<27> | The event receiver is invoked after a list (1) is deleted. |
| SiteDeleted | The event receiver is invoked after a site collection is deleted. |
| WebDeleted | The event receiver is invoked after a site (2) is deleted. |
| WebMoved | The event receiver is invoked after a site (2) is moved. |
| WebProvisioned<28> | The event receiver is invoked after a site (2) is provisioned . |
| GroupAdded | This event receiver is invoked after a security group is added. |
| GroupUpdated | This event receiver is invoked after a security group is updated. |
| GroupDeleted | This event receiver is invoked after a security group is deleted. |
| GroupUserAdded | This event receiver is invoked after a user is added to a security group. |
| GroupUserDeleted | This event receiver is invoked after a user is removed from a security group. |
| RoleDefinitionAdded | This event receiver is invoked after a role definition is added. |
| RoleDefinitionUpdated | This event receiver is invoked after a role definition is updated. |
| RoleDefinitionDeleted | This event receiver is invoked after a role definition is deleted. |
| RoleAssignmentAdded | This event receiver is invoked after a role assignment is added. |
| RoleAssignmentDeleted | This event receiver is invoked after a role assignment is deleted. |
| InheritanceBroken | This event receiver is invoked after a securable object stops inheriting permissions from its parent or containing object. |
| InheritanceRestored | This event receiver is invoked after a securable object starts inheriting permissions from its parent or containing object. |
| EmailReceived | The event receiver is invoked when an e-mail message is received by a list (1). |
| ContextEvent | The event receiver is context sensitive and inspects the ContextType value to perform a corresponding action. |

When **HostType** is **ListItem**, **Type** MUST NOT be **ItemAdding** or **ItemAdded**.

SequenceNumber: The sequential number of this event receiver.

Assembly: Name of an **assembly** that contains the class implementing the event receiver. If present, then **Class** MUST also be present and **Url** MUST NOT be present. The format MUST be as defined by **AssemblyName**:

```
AssemblyName = LibraryIdentifier ',' VersionProperty ','  
              CultureProperty ',' PublicKeyTokenProperty
```

where **LibraryIdentifier**, **VersionProperty**, **PublicKeyTokenProperty**, and **CultureProperty** are as defined in [\[MS-NRTP\]](#) section 2.2.1.3.

Class: Namespace-qualified name of the class that implements the event receiver. If present, then **Assembly** MUST also be present and **Url** MUST NOT be present. The format MUST be as defined by **ClassName**:

```
ClassName=NamespaceIdentifier '.' TypeIdentifier  
0*1(TypeParameterList)
```

where **NamespaceIdentifier**, **TypeIdentifier**, and **TypeParameterList** are as defined in [\[MS-NRTP\]](#) section 2.2.1.2.

Url: An absolute URL that identifies the location of the service that implements the event receiver. If present, then **Assembly** and **Class** MUST NOT be present. [<29>](#)

Data: The value that was supplied by the user when registering the event receiver.

Filter: Reserved. If present, value MUST be an empty string (2).

Credential: Reserved. Value MUST be 0.

ItemId: Reserved. If present value MUST be 0.

Synchronization: Specifies how the event receiver is invoked (see section [2.1.4.11](#)). [<30>](#)

SolutionId: Unique identifier of the solution this event receiver is part of. [<31>](#)

2.1.2.30 SPEventReceiverDefinitionCollection

Specifies a collection of event receivers.

```
<xs:complexType name="SPEventReceiverDefinitionCollection">  
  <xs:sequence>  
    <xs:element name="EventReceiver" type="SPEventReceiverDefinition"  
      minOccurs="0" maxOccurs="unbounded" />  
  </xs:sequence>  
</xs:complexType>
```

2.1.2.30.1 Child Elements

EventReceiver: An instance of an event receiver. The contents of this element MUST conform to the schema specified in section [2.1.2.29](#).

2.1.2.31 SPFeature

Specifies a feature.

```
<xs:complexType name="SPFeature">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required"/>
  <xs:attribute name="WebId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="Properties" type="xs:string" use="optional" />
  <xs:attribute name="FeatureDefinitionName" type="xs:string"
    use="required" />
  <xs:attribute name="Version" type="FeatureVersion"
    use="optional" default="0.0.0.0"/>
  <xs:attribute name="IsUserSolutionFeature"
    type="core:truefalse_Only_Lowercase" use="optional" />
  <xs:attribute name="FeatureDefinitionScope" use="optional" >
    <xs:simpleType>
      <xs:restriction base="xs:int">
        <xs:minInclusive value="0" />
        <xs:maxInclusive value="3" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
```

2.1.2.31.1 Attributes

Id: The identifier of the feature.

WebId: The Web identifier of the site (2) for a site-scoped feature. This is an object reference corresponding to the identifier of an **SPWeb** element in the Manifest.xml file as specified in section [2.1.2.58](#). If the feature is a site-scoped feature, this attribute **MUST** be present and the referenced element **MUST** be in the deployment package (1). Otherwise, this attribute **MUST NOT** be present.

Properties: The following **XML schema definition (XSD)** defines the Feature Property Definitions. The value of the attribute is an XML string without XML header and with special characters escaped as specified in [\[XML10\]](#), section 2.4.

```
<xs:element name="Properties" type="FeaturePropertyDefinitions" minOccurs="0" maxOccurs="1" />
<xs:complexType name="FeaturePropertyDefinitions">
  <xs:sequence>
    <xs:element name="Property" type="FeaturePropertyDefinition" minOccurs="0"
maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="FeaturePropertyDefinition">
  <xs:attribute name="Key" type="xs:string" />
  <xs:attribute name="Value" type="xs:string" />
</xs:complexType>
```

The **Properties** element represents a collection of user-defined name/value pairs (represented by **Property** elements, with the **Key** attribute representing the name, and the **Value** attribute representing the value).

Example:

```
<Properties>
  <Property Key="Color" Value="Red" />
  <Property Key="HatSize" Value="13" />
</Properties>
```

FeatureDefinitionName: The name of the feature. MUST be unique across all installed features.

FeatureDefinitionScope: The scope at which this feature is installed. If present, the value MUST be one of the values described in the following table. [<32>](#)

| Value | Description |
|-------|---|
| 0 | The feature is not associated with any scope. |
| 1 | The scope of the feature MUST be a farm . |
| 2 | The scope of the feature MUST be a site collection. |
| 3 | The scope of the feature MUST be a site (2). |

Version: Version of the feature, as defined in section [2.1.4.3.<33>](#)

IsUserSolutionFeature: True if the feature is part of a user solution. [<34>](#)

2.1.2.32 SPFieldIndex

Specifies the structure of a **composite field index** of the parent list (1). [<35>](#)

```
<xs:complexType name="SPFieldIndex">
  <xs:sequence>
    <xs:element name="FieldRef" type="SPFieldIndexColumn"
      minOccurs="2" maxOccurs="2" />
  </xs:sequence>
  <xs:attribute name="ID" type="core:UniqueIdentifierWithBraces"
    use="required" />
</xs:complexType>
```

This element MUST contain two elements of **SPFieldIndexColumn** type; the first one defines primary field (2) of the index, and the second one defines the secondary field (2) of the index. Composite field indices on three or more fields (2) are not supported by this protocol.

2.1.2.32.1 Attributes

ID: Identifier of the composite field index.

2.1.2.32.2 Child Elements

FieldRef: Specifies a field (2) that is part of a composite field index.

2.1.2.33 SPFieldIndexCollection

Specifies the collection of composite field indices of a list (1).<36>

```
<xs:complexType name="SPFieldIndexCollection">
  <xs:sequence>
    <xs:element name="Index" type="SPFieldIndex"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.33.1 Child Elements

Index: A composite field index as specified in section [2.1.2.32](#).

2.1.2.34 SPFieldIndexColumn

Specifies a field (2) that is part of a composite field index.<37>

```
<xs:complexType name="SPFieldIndexColumn">
  <xs:attribute name="ID" type="core:UniqueIdentifierWithBraces"
    use="required" />
</xs:complexType>
```

2.1.2.34.1 Attributes

ID: Identifier of the field (2).

2.1.2.35 SPFile

Specifies a file.

```
<xs:complexType name="SPFile">
  <xs:sequence>
    <xs:element name="Properties" type="Dictionary" minOccurs="0" />
    <xs:element name="Versions" type="SPFileVersionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="WebParts" type="SPWebPartCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Personalizations" type="SPPersonalizationCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Links" type="SPLinkCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
```



```

        use="required" />
<xs:attribute name="Url" type="xs:string" use="required" />
<xs:attribute name="ListItemIntId" type="xs:int" use="optional" />
<xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
<xs:attribute name="ParentWebUrl" type="xs:string" use="optional" />
<xs:attribute name="ParentId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
<xs:attribute name="ListId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
<xs:attribute name="FileValue" type="PackageFileName" use="optional" />
<xs:attribute name="CheckinComment" type="xs:string" use="optional" />
<xs:attribute name="Version" type="VersionString"
    use="optional" default="1.0" />
<xs:attribute name="Author" type="xs:int" use="optional" />
<xs:attribute name="ModifiedBy" type="xs:int" use="optional" />
<xs:attribute name="TimeCreated" type="xs:dateTime" use="optional" />
<xs:attribute name="TimeLastModified" type="xs:dateTime" use="optional" />
<xs:attribute name="FailureMessage" type="xs:string" use="optional" />
<xs:attribute name="IsGhosted" type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
<xs:attribute name="SetupPath" type="core:RelativeFilePath"
    use="optional" />
<xs:attribute name="SetupPathUser" type="xs:int" use="optional" />
<xs:attribute name="SetupPathVersion" type="xs:byte" default="4" />
</xs:complexType>

```

2.1.2.35.1 Attributes

Id: The document identifier of the file.

Name: The name of the file with extension, for example, "AllItems.aspx" or "template.doc".

Url: The site-relative URL for the file. MUST NOT be an empty string (2).

ListItemIntId: If the file does not have an associated list item, then this attribute MUST NOT be present. Otherwise, this specifies the identifier of that list item within its containing list (1). This is an object reference corresponding to the **IntId** of a **ListItem** element of type **SListItem** as specified in section [2.1.2.45](#). The referenced element MUST be in the deployment package (1).

ParentWebId: The **site identifier** of the site (2) that contains the file. This is an object reference corresponding to the **Id** of a site (2) as specified in section [2.1.2.58](#).

ParentWebUrl: The server-relative URL of the site (2) that contains the file. If the complex type of the parent element is **SObject**, then this attribute MUST be present. Otherwise, this attribute MUST NOT be present.

ParentId: The **folder identifier** of the folder that contains this file. This is an object reference corresponding to the **Id** of a folder as specified in section [2.1.2.37](#). If the complex type of the parent element is **SObject**, this attribute MUST be present. Otherwise, this attribute MUST NOT be present.

ListId: The **list identifier** of the list (1) that contains the file. This is an object reference corresponding to the **Id** of a list (1) as specified in section [2.1.2.44](#). If **ListItemIntId** is present and the complex type of the parent element is **SObject**, this attribute MUST be present. Otherwise, this attribute MUST NOT be present.

FileValue: A path inside the deployment package (1) to the binary content file that contains the raw data of the file. If the **Versions** element of this file is present, then this attribute MUST NOT be present. Otherwise, this attribute MUST be present.

CheckinComment: A human-readable text associated with the file when it was last checked in.

Version: The version of this file.

Author: The user identifier of the user who created this file.

ModifiedBy: The user identifier of the user who has most recently edited the file.

TimeCreated: The date and time when the file was created, which MUST be in UTC format.

TimeLastModified: The date and time when the file was last saved, which MUST be in UTC format.

FailureMessage: A failure message generated when the file was written to the deployment package (1) with an error.

IsGhosted: Specifies whether the file is **uncustomized**.

SetupPath: If the file is or initially has been uncustomized, this specifies the **setup path** fragment of the uncustomized file relative to the base setup path as specified by the **SetupPathVersion** attribute. Otherwise, this attribute MUST NOT be present.

SetupPathUser: If this file is or initially has been uncustomized, this specifies the user identifier of the user that created the uncustomized file. Otherwise, this attribute MUST NOT be present.

SetupPathVersion: If this file is or once was uncustomized, this specifies the setup path location with which the **SetupPath** fragment is relative. [<38>](#) Otherwise, this attribute MUST NOT be present. When present, the value MUST be one of the following specified values:

| Value | Description |
|-------|--|
| 2 | The SetupPath is relative to the template location of WSSv2 on the front-end Web server. |
| 3 | The SetupPath is relative to the template location of WSSv3 on the front-end Web server. |
| 4 | The SetupPath is relative to the template location of WSSv4 on the front-end Web server. |

2.1.2.35.2 Child Elements

Properties: The properties of the file, as defined in section [2.1.2.16](#).

Versions: The versions of the file, as defined in section [2.1.2.36](#). For SPFile elements representing versions, that is, child objects of **SPFileVersionCollection**, this element MUST NOT be present.

WebParts: For the files which are Web Part pages with extension ".aspx" (see **Name** attribute), all **Web Parts** contained in this Web page, as defined in section [2.1.2.60](#). For the files which are not Web Part pages this child element MUST NOT be present.

Personalizations: For the files which are Web Part pages with extension ".aspx" (see **Name** attribute), all personalizations made to Web Parts contained in this Web page, as defined in section [2.1.2.49](#). For the files which are not Web Part pages this child element MUST NOT be present.

Links: The links to or from the file, as defined in section [2.1.2.43](#).

2.1.2.36 SPFileVersionCollection

Specifies a collection of versions of a file.

```
<xs:complexType name="SPFileVersionCollection">
  <xs:sequence>
    <xs:element name="File" type="SPFile"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.36.1 Child Elements

File: A version of a file.

2.1.2.37 SPFolder

Specifies a folder.

```
<xs:complexType name="SPFolder">
  <xs:sequence>
    <xs:element name="Properties" type="Dictionary" minOccurs="0" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Name" type="xs:string" />
  <xs:attribute name="Url" type="xs:string" use="required" />
  <xs:attribute name="ParentFolderId"
    type="core:UniqueIdentifierWithoutBraces" use="required" />
  <xs:attribute name="ParentWebId"
    type="core:UniqueIdentifierWithoutBraces" use="required" />
  <xs:attribute name="ParentWebUrl" type="xs:string" use="optional" />
  <xs:attribute name="ContainingDocumentLibrary"
    type="core:UniqueIdentifierWithoutBraces" use="optional" />
  <xs:attribute name="WelcomePageUrl" type="xs:string" use="optional" />
  <xs:attribute name="ListItemIntId" type="xs:int" use="optional" />
  <xs:attribute name="ModifiedBy" type="xs:string" use="optional" />
  <xs:attribute name="TimeCreated" type="xs:dateTime" use="optional" />
  <xs:attribute name="TimeLastModified" type="xs:dateTime" use="optional" />
  <xs:attribute name="ProgId" type="xs:string" use="optional" />
  <xs:attribute name="SortBehavior" use="optional">
    <xs:simpleType>
      <xs:restriction base="xs:int">
        <xs:minInclusive value="0" />
        <xs:maxInclusive value="2" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
```

2.1.2.37.1 Attributes

Id: The identifier of the folder.

Name: The name of the folder.

Url: The site-relative URL of the folder.

ParentFolderId: The identifier of the folder that contains the folder specified by this type. If the folder specified by this type is the root folder, then the value MUST be 00000000-0000-0000-0000-000000000000. Otherwise, this is an object reference corresponding to the **Id** of a folder as specified in section [2.1.2.37](#).

ParentWebId: The identifier of the site (2) that contains the folder. This is an object reference corresponding to the **Id** of a site (2) as specified in section [2.1.2.58](#).

ParentWebUrl: The server-relative URL of the site (2) that contains the folder. This is an object reference corresponding to the server-relative URL of a site (2) as specified in section [2.1.2.58](#).

ContainingDocumentLibrary: The identifier of the list (1) that contains the folder. This is an object reference corresponding to the **Id** of a list (1) as specified in section [2.1.2.44](#). If the folder is the root folder of a list (1), this attribute MUST be present. Otherwise, it MUST NOT be present.

WelcomePageUrl: The site-relative URL of the **Welcome page** for the folder.

ListItemIntId: If the folder does not have an associated list item, then this element MUST NOT be present. Otherwise, this specifies the identifier of that list item within its containing list (1). This is an object reference corresponding to the **IntId** of a **ListItem** element of type **SPLListItem** as specified in section [2.1.2.45](#). The referenced element MUST be in the deployment package (1).

ModifiedBy: The identifier of the user who has most recently edited the folder.

TimeCreated: The date and time when the folder was created. MUST be in UTC format.

TimeLastModified: The date and time when the folder was last saved. MUST be in UTC format.

ProgId: Programmatic identifier (ProgID) of the application associated with the folder (if any).<39>

SortBehavior: An integer value specifying how the folder is sorted within a view. The value MUST be one of the values described in the following table.<40>

| Value | Description |
|-------|--|
| 0 | The folder MUST be sorted like a file. |
| 1 | The folder MUST be sorted like a folder. |
| 2 | The folder MUST be for a site (2). |

2.1.2.37.2 Child Elements

Properties: The properties of the folder.

2.1.2.38 SPForm

Specifies a List Form Web Part object for a list (1) in a deployment package (1).

```
<xs:complexType name="SPForm">  
  <xs:attribute name="Name" type="core:UniqueIdentifierWithoutBraces"  
    use="required" />  
  <xs:attribute name="Type" use="required" />  
</xs:complexType>
```

```

<xs:simpleType>
  <xs:restriction base="core:FormType">
    <xs:enumeration value="DisplayForm" />
    <xs:enumeration value="EditForm" />
    <xs:enumeration value="NewForm" />
    <xs:enumeration value="" />
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="Url" type="core:RelativeUrl" use="required" />
<xs:attribute name="FileId" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="Flags" type="xs:unsignedInt" use="required" />
<xs:attribute name="WebPartIdProperty" type="String255" />
</xs:complexType>

```

2.1.2.38.1 Attributes

Name: The identifier for this List Form Web Part. This **Name** attribute is an object reference corresponding to the **Id** attribute of a **ViewForm** element of type **SPViewForm** in the ViewFormsList.xml file as specified in section [2.8.2.1](#). The referenced element MUST be in the deployment package (1) and the **Type** attribute of the corresponding element MUST be "Forms." This **Name** attribute is also an object reference corresponding to the **Name** attribute of a **WebPart** element of type **SPWebPart** as specified in section [2.1.2.59](#). The referenced element MUST be in the deployment package (1).

Type: The type of this List Form Web Part. The meaning for each allowed value of this type is specified in [\[MS-WSSCAML\]](#) section 2.3.1.5.

Url: The server-relative URL to the **Web Part Page** that displays this List Form Web Part.

FileId: An identifier for the Web Part Page that displays this List Form Web Part. This **FileId** attribute is also an object reference corresponding to the **Id** attribute of a **File** element of type **SPFile** as specified in section [2.1.2.35](#). The referenced element MUST be in the deployment package (1)

Flags: A 4-byte unsigned integer representation of a bit mask corresponding to properties. The valid values of the **view flags** bits are as specified in [\[MS-WSSFO2\]](#) section 2.2.2.12. [<41>](#)

WebPartIdProperty: The optional identifier of the Web Part. [<42>](#) If present, it MUST be unique for each page, not start with a number, and contain only a combination of alphanumeric characters and underscores.

JSLink: If present, an implementation-specific string that contains the location of script files to use when rendering items in this list (1). [<43>](#)

2.1.2.39 SPFormCollection

Specifies a collection of List Form Web Part objects.

```

<xs:complexType name="SPFormCollection">
  <xs:sequence>
    <xs:element name="Form" type="SPForm"

```

```

        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

```

2.1.2.39.1 Child Elements

Form: A child element for each of the List Form Web Part objects contained by this collection element that conforms to the **SPForm** complex type (see section [2.1.2.38](#)).

2.1.2.40 SPGenericObject

Specifies an implementation object.

```

<xs:complexType name="SPGenericObject">
  <xs:sequence>
    <xs:choice minOccurs="0" maxOccurs="1">
      <xs:element name="Site" type="SPSite" />
      <xs:element name="Web" type="SPWeb" />
      <xs:element name="List" type="SPList" />
      <xs:element name="DocumentLibrary" type="SPDocumentLibrary" />
      <xs:element name="ListItem" type="SPLListItem" />
      <xs:element name="Folder" type="SPFolder" />
      <xs:element name="File" type="SPFile" />
      <xs:element name="ContentType" type="SPContentType" />
      <xs:element name="FieldTemplate"
        type="DeploymentFieldTemplate" />
      <xs:element name="WebStructure" type="DeploymentWebStructure" />
      <xs:element name="UserX" type="DeploymentUserX" />
      <xs:element name="GroupX" type="DeploymentGroupX" />
      <xs:element name="Roles" type="DeploymentRoles" />
      <xs:element name="RoleX" type="DeploymentRoleX" />
      <xs:element name="RoleAssignments"
        type="DeploymentRoleAssignments" />
      <xs:element name="RoleAssignmentX"
        type="DeploymentRoleAssignmentX" />
      <xs:element name="Feature" type="SPFeature" />
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="ObjectType" type="SPObjectType" use="required"/>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required"/>
  <xs:attribute name="ParentId"
    type="core:UniqueIdentifierWithoutBracesOrEmpty"
    use="required"/>
  <xs:attribute name="IsDeleted" type="core:truefalse_Only_Lowercase"
    use="optional" default="false"/>
  <xs:attribute name="IsSiteRename" type="core:truefalse_Only_Lowercase"
    use="optional" default="false"/>
  <xs:attribute name="ParentWebId"
    type="core:UniqueIdentifierWithoutBracesOrEmpty"
    use="required"/>
  <xs:attribute name="ParentWebUrl" type="String261"
    use="optional" />
  <xs:attribute name="ContentTypeId" type="core:ContentTypeId"
    use="optional" />
  <xs:attribute name="Url" type="String261" use="optional"/>

```

```

</xs:complexType>

<xs:simpleType name="SPObjectType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="SPSite" />
    <xs:enumeration value="SPWeb" />
    <xs:enumeration value="SPList" />
    <xs:enumeration value="SPDocumentLibrary" />
    <xs:enumeration value="SPListItem" />
    <xs:enumeration value="SPFolder" />
    <xs:enumeration value="SPFile" />
    <xs:enumeration value="SPContentType" />
    <xs:enumeration value="DeploymentWebStructure" />
    <xs:enumeration value="DeploymentUserX" />
    <xs:enumeration value="DeploymentGroupX" />
    <xs:enumeration value="DeploymentRoles" />
    <xs:enumeration value="DeploymentRoleX" />
    <xs:enumeration value="DeploymentRoleAssignments" />
    <xs:enumeration value="DeploymentRoleAssignmentX" />
    <xs:enumeration value="DeploymentFieldTemplate" />
    <xs:enumeration value="SPFeature" />
  </xs:restriction>
</xs:simpleType>

```

2.1.2.40.1 Attributes

ObjectType: the type of this object. MUST be one of the values described in the following table.

| Value | Description |
|------------------------|--|
| SPSite | The object is a site collection. |
| SPWeb | The object is a site (2). |
| SPList | The object is a list (1). |
| SPDocumentLibrary | The object is a document library. |
| SPListItem | The object is a list item. |
| SPFolder | The object is a Folder. |
| SPFile | The object is a document. |
| SPContentType | The object is a content type. |
| DeploymentWebStructure | The object is a Navigation Structure. |
| DeploymentUserX | The object specifies information about changes that have occurred to a security principal. |
| DeploymentGroupX | The object specifies information about changes that have occurred to a security group. |
| DeploymentRoles | The object is a collection of role definitions. |
| DeploymentRoleX | The object specifies information about changes that have occurred to a |

| Value | Description |
|---------------------------|---|
| | role definition. |
| DeploymentRoleAssignments | This object is a collection of role assignments. |
| DeploymentRoleAssignmentX | The object specifies information about changes that have occurred to a role assignment. |
| DeploymentFieldTemplate | The object is a field (2). |
| SPFeature | The object is a feature. |

Id: The identifier of the **deployment system object**. This is an object reference corresponding to the **Id** of a **RootObject** element of type **SPRootObject** in the RootObjectMap.xml file as specified in section [2.5.2.1](#).

ParentId: The identifier of the parent deployment system object. If not an empty string (2), this attribute is an object reference corresponding to the **Id** of a deployment object, as specified in section [2.1.2.40](#).

IsDeleted: Specifies whether the object has been deleted.

IsSiteRename: Specifies whether the object was renamed. [<44>](#) If **ObjectType** is not **SPWeb** **IsSiteRename** MUST NOT be present.

ParentWebId: If **ObjectType** is **SPWeb**, it specifies the identifier of this site (2), otherwise the identifier of the parent site (2). If **ObjectType** is **SPWeb**, the value of this attribute MUST be the same as the value of the **Id** attribute. Otherwise, if the value of this attribute is not an empty string (2), this attribute is an object reference corresponding to the **Id** of a site (2) as specified in section [2.1.2.58](#).

ParentWebUrl: If **ObjectType** is **SPWeb**, it specifies the server-relative URL of this site (2), otherwise the server-relative URL of the parent site (2). If **ObjectType** is **SPWeb**, the value of this attribute MUST be the same as the value of **Url**.

ContentTypeId: The identifier of the object content type. MUST be a **content type identifier** as specified in [\[MS-WSSCAML\]](#) section 2.3.1.4. MUST be present if **IsDeleted** is **true** and **ObjectType** is **SPContentType** or **DeploymentFieldTemplate**. Otherwise MUST NOT be present.

Url: The server-relative URL to the object. MUST be present if **ObjectType** is one of the following: **SPWeb**, **SPList**, **SPDocumentLibrary**, **SPListItem**, **SPFolder**, **SPFile**, **SPContentType**, or **DeploymentFieldTemplate**. Otherwise MUST NOT be present.

2.1.2.40.2 Child Elements

If the value of either the **IsDeleted** or the **IsSiteRename** attribute is **true**, the **SPObjct** element MUST contain no child elements. Otherwise, the **SPObjct** element MUST either contain no child elements or contain one of the following child elements. For each particular value of the **ObjectType** attribute the single child element MUST be of the specific type described in the following table.

| ObjectType attribute value | Child element |
|----------------------------|--|
| SPSite | Site: An instance of an SPSite complex type (see section 2.1.2.50) specifying a site collection object. |

| ObjectType attribute value | Child element |
|----------------------------|--|
| SPWeb | Web: An instance of an SPWeb complex type (see section 2.1.2.58) specifying a site (2) object. |
| SPList | List: An instance of an SPList complex type (see section 2.1.2.44) specifying a list (1) object. |
| SPDocumentLibrary | DocumentLibrary: An instance of an SPDocumentLibrary complex type (see section 2.1.2.28) specifying a document library object. |
| SPListItem | ListItem: An instance of an SPListItem complex type (see section 2.1.2.45) specifying a list item object. |
| SPFolder | Folder: An instance of an SPFolder complex type (see section 2.1.2.37) specifying a folder object. |
| SPFile | File: An instance of an SPFile complex type (see section 2.1.2.35) specifying a document object. |
| SPContentType | ContentType: An instance of an SPContentType complex type (see section 2.1.2.27) specifying a content type object. |
| DeploymentWebStructure | WebStructure: An instance of a DeploymentWebStructure complex type (see section 2.1.2.14) specifying a Navigation Structure object. |
| DeploymentUserX | UserX: An instance of a DeploymentUserX complex type (see section 2.1.2.13) specifying information about changes that have occurred to a security principal (2). |
| DeploymentGroupX | GroupX: An instance of a DeploymentGroupX complex type (see section 2.1.2.6) specifying information about changes that have occurred to a security group. |
| DeploymentRoles | Roles: An instance of a DeploymentRoles complex type (see section 2.1.2.7) specifying a collection of role definitions. |
| DeploymentRoleX | RoleX: An instance of DeploymentRoleX complex type (see section 2.1.2.12) specifying information about changes that have occurred to a role definition. |
| DeploymentRoleAssignments | RoleAssignments: An instance of a DeploymentRoleAssignments complex type (see section 2.1.2.9) specifying a collection of role assignments. |
| DeploymentRoleAssignmentX | RoleAssignmentX: An instance of a DeploymentRoleAssignmentX complex type (see section 2.1.2.10) specifying information about changes that have occurred to a role assignment. |
| DeploymentFieldTemplate | FieldTemplate: An instance of a DeploymentFieldTemplate complex type (see section 2.1.2.5) specifying a field (2) object. |
| SPFeature | Feature: An instance of an SPFeature complex type (see section 2.1.2.31) specifying a Feature object. |

2.1.2.41 SPGenericObjectCollection

Specifies a collection generic objects.

```
<xs:complexType name="SPGenericObjectCollection">
```

```

<xs:sequence>
  <xs:element name="SPObject"
    type="SPGenericObject"
    minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>

```

2.1.2.41.1 Child Elements

SPObject: An instance of an implementation object. The contents of this element MUST conform to the schema specified in section [2.1.2.40](#).

The following specifies the relative order of objects within the collection:

1. Objects where **SPObject.ObjectType** is "SPSite" (in any order).
2. Objects where either **SPObject.ObjectType** is not "SPWeb" or **SPObject.IsDeleted** is **false**, such that object referenced by **SPObject.ParentWebId** does not belong to the collection, sorted in the following order:
 - Objects where **SPObject.ObjectType** is "DeploymentUserX" (in any order).
 - Objects where **SPObject.ObjectType** is "DeploymentGroupX" (in any order).
 - Objects where **SPObject.ObjectType** is "SPWeb" and objects where **SPObject.ObjectType** is "SPFolder" that do not belong to document library, ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPFile" that do not belong to document library, ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "DeploymentFieldTemplate", ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPContentType", ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPList" or "SPDocumentLibrary", ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPFolder" that belong to document library, ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPFile" that belong to document library, ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPListItem", ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "DeploymentRoles" (in any order).
 - Objects where **SPObject.ObjectType** is "DeploymentRoleAssignments" (in any order).
 - Objects where **SPObject.ObjectType** is "DeploymentRoleX" (in any order).
 - Objects where **SPObject.ObjectType** is "DeploymentRoleAssignmentX" (in any order).

3. Objects where **SPObject.ObjectType** is "SPWeb", and **SPObject.IsDeleted** is **false**, ordered by **SPObject.Url** ascending, each followed by objects where **SPObject.ParentWebId** is the current **SPWeb's Id**, in the following order:
 - Objects where **SPObject.ObjectType** is "SPFolder" that do not belong to document library, ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPFile" that do not belong to document library, ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "DeploymentFieldTemplate", ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPContentType", ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPList" or "SPDocumentLibrary", ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPFolder" that belong to document library, ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPFile" that belong to document library, ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "SPListItem", ordered by **SPObject.Url** ascending.
 - Objects where **SPObject.ObjectType** is "DeploymentRoles" (in any order).
 - Objects where **SPObject.ObjectType** is "DeploymentRoleAssignments" (in any order).
 - Objects where **SPObject.ObjectType** is "DeploymentRoleX" (in any order).
 - Objects where **SPObject.ObjectType** is "DeploymentRoleAssignmentX" (in any order).
 - Objects where **SPObject.ObjectType** is "DeploymentWebStructure" (in any order).
4. Objects where **SPObject.ObjectType** is "SPWeb" and **SPObject.IsDeleted** is **true** or **SPObject.IsSiteRename** is **true**, ordered by **SPObject.Url** descending.
5. Objects where **SPObject.ObjectType** is "SPFeature", ordered such that the **Feature** that is depended upon precedes the one that depends on it, and within that by the time when the **Feature** was activated, in ascending order.

2.1.2.42 SPLink

A link to or from a page, field (2), or Web Part.

```
<xs:complexType name="SPLink">
  <xs:sequence></xs:sequence>
  <xs:attribute name="TargetId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="TargetUrl" type="xs:string" use="required" />
  <xs:attribute name="IsDirty" type="OnlyFalse" use="required" />
  <xs:attribute name="WebPartId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="LinkNumber" type="xs:int" use="optional" />
  <xs:attribute name="Type" type="xs:unsignedByte" use="optional" />
  <xs:attribute name="Security" type="xs:unsignedByte" use="optional" />
</xs:complexType>
```

```

<xs:attribute name="Dynamic" type="xs:unsignedByte" use="optional" />
<xs:attribute name="ServerRel" type="core:truefalse_Only_Lowercase"
use="optional" />
<xs:attribute name="Level" type="xs:unsignedByte" use="optional" />
<xs:attribute name="Search" type="xs:string" use="optional" />
</xs:complexType>

<xs:simpleType name="OnlyFalse">
  <xs:restriction base="xs:string">
    <xs:enumeration value="false" />
  </xs:restriction>
</xs:simpleType>

```

2.1.2.42.1 Attributes

TargetId: The identifier of the target object. If the target of this link is an object contained in the **content database**, then this MUST be an object reference corresponding to one of the following:

- The **Id** attribute of a **Folder** element of type **SPFolder** as specified in section [2.1.2.37](#).
- The **Id** attribute of a **File** element of type **SPFile** as specified in section [2.1.2.35](#).

Otherwise, if the target of this link is not an object contained in the content database, this identifier MUST be unique.

TargetUrl: The server-relative URL of the target object.

IsDirty: Reserved. MUST be **false**.

WebPartId: If the link is from a Web Part, then this attribute represents the identifier of that Web Part, which is an object reference corresponding to the **Name** attribute of a Web Part as specified in section [2.1.2.59](#). Otherwise, this attribute MUST NOT be present.

LinkNumber: If **WebPartId** is present, then this attribute represents the order where this link belongs in the order of all links within the same Web Part. Otherwise, this attribute MUST NOT be present.

Type: If **WebPartId** is present, then this attribute represents the type of link, which MUST be the decimal representation of one of the ASCII character values specified in [\[MS-WSSFO2\]](#) section 2.2.3.10.<45> Otherwise, this attribute MUST NOT be present.

Security: If **WebPartId** is present, then this attribute represents the security protocol used for this link, which MUST be the decimal representation of one of the ASCII character values specified in [\[MS-WSSFO2\]](#) section 2.2.3.9.<46> Otherwise, this attribute MUST NOT be present.

Dynamic: If **WebPartId** is present, then this attribute represents the form of the target URL, which MUST be the decimal representation of one of the ASCII character values specified in [\[MS-WSSFO2\]](#) section 2.2.3.8.<47> Otherwise, this attribute MUST NOT be present.

ServerRel: If **WebPartId** is present, then this attribute specifies whether the target of the link is on the local server. Otherwise, this attribute MUST NOT be present.

Level: If **WebPartId** is present, then this attribute specifies whether the version of the object that contains this link is published or a draft, which MUST be one of the values described in the following table. Otherwise, this attribute MUST NOT be present.

| Value | Description |
|-------|-------------|
| 1 | Published |
| 2 | Draft |

Search: If **WebPartId** is present, then this attribute represents the queries and fragment associated with the URL of the link, that is, it is the portion of the URI starting with the '?' character as specified in [\[RFC2396\]](#) (see "URI Syntactic Components"). Otherwise, this attribute MUST NOT be present.

For example, given the following URL:

```
"http://www.contoso.com/default.aspx?Param1=Value1&Param2=Value2#top"
```

The value for the **Search** attribute would be the following:

```
"?Param1=Value1&Param2=Value2#top".
```

2.1.2.43 SPLinkCollection

Specifies a collection of **SPLink** elements (section [2.1.2.42](#)).

```
<xs:complexType name="SPLinkCollection">
  <xs:sequence>
    <xs:element name="Link" type="SPLink"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.43.1 Child Elements

Link: A link.

2.1.2.44 SPList

Specifies an instance of a list (1) object.

```
<xs:complexType name="SPList">
  <xs:sequence >
    <xs:choice minOccurs="0" maxOccurs="11">
      <xs:element name="Fields" type="core:FieldDefinitions"
        minOccurs="0" maxOccurs="1" />
      <xs:element name="ContentTypes" type="core:ContentTypeDatabase"
        minOccurs="0" maxOccurs="1" />
      <xs:element name="Views" type="SPViewCollection"
        minOccurs="0" maxOccurs="1" />
      <xs:element name="Forms" type="SPFormCollection"
        minOccurs="0" maxOccurs="1" />
      <xs:element name="EventReceivers"
        type="SPEventReceiverDefinitionCollection"
        minOccurs="0" maxOccurs="1" />
    </xs:choice>
  </xs:sequence>
</xs:complexType>
```

```

    <xs:element name="DeletedFields" type="ListDeletedFields"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="DeletedViews" type="ListDeletedViews"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="DeletedContentTypes"
      type="ListDeletedContentTypes"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="UserCustomActions"
      type="SPUserCustomActionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Resources" type="SPUserResourceCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="FieldIndexes" type="SPFieldIndexCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:choice>
</xs:sequence>

<xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="Title" type="String255" use="required" />
<xs:attribute name="RootFolderId"
  type="core:UniqueIdentifierWithoutBraces" />
<xs:attribute name="RootFolderUrl" type="xs:string" use="required" />
<xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="ParentWebUrl" type="xs:string" use="optional" />
<xs:attribute name="BaseType" type="SPBaseType" />
<xs:attribute name="BaseTemplate" type="SPListTemplateType"
  use="required" />
<xs:attribute name="TemplateFeatureId"
  type="core:UniqueIdentifierWithoutBraces" />
<xs:attribute name="Description" type="xs:string" use="optional" />
<xs:attribute name="Direction" type="Direction" use="optional" />
<xs:attribute name="DocumentTemplateId"
  type="core:UniqueIdentifierWithoutBraces" use="optional" />
<xs:attribute name="EventSinkAssembly" type="String255" use="optional" />
<xs:attribute name="SendToLocationName" type="xs:string" use="optional" />
<xs:attribute name="SendToLocationUrl" type="xs:string" use="optional" />
<xs:attribute name="EventSinkClass" type="String255" use="optional" />
<xs:attribute name="EventSinkData" type="String255" use="optional" />
<xs:attribute name="ImageUrl" type="String255" use="required"/>
<xs:attribute name="Flags" type="xs:unsignedLong" use="required" />
<xs:attribute name="AllowDeletion" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="AllowMultiResponses"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableAttachments"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableModeration"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableVersioning"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableMinorVersions"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="RequestAccessEnabled"
  type="core:truefalse_Only_Lowercase" use="optional" />
<xs:attribute name="DraftVersionVisibility" type="DraftVisibilityType" />
<xs:attribute name="ForceCheckout" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="ExcludeFromTemplate"
  type="core:truefalse_Only_Lowercase" />

```

```

<xs:attribute name="ExcludeFromOfflineClient"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="Hidden" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="MultipleDataList"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="Ordered" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="ShowUser" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnablePeopleSelector"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableResourceSelector"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="NoThrottleListOperations"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="Author" type="xs:positiveInteger" use="optional" />
<xs:attribute name="Created" type="xs:dateTime" use="optional" />
<xs:attribute name="OnQuickLaunch" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="ReadSecurity" type="ReadSecurity" use="required" />
<xs:attribute name="WriteSecurity" type="WriteSecurity" use="required" />
<xs:attribute name="Version" type="xs:int" use="required" />
<xs:attribute name="MajorVersionLimit" type="xs:int" />
<xs:attribute name="MajorWithMinorVersionsLimit" type="xs:int" />
<xs:attribute name="EmailAlias" type="String128" use="optional" />
<xs:attribute name="EnableContentTypes"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="NavigateForFormsPages"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="NeedUpdateSiteClientTag"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableDeployWithDependentList"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableFolderCreation"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="DefaultItemOpen" type="DefaultItemOpen" />
<xs:attribute name="DefaultItemOpenUseListSetting"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableAssignToEmail"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableSyndication"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="IrmEnabled" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="IrmExpire" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="IrmReject" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="NoCrawl" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnforceDataValidation"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="PreserveEmptyValues"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="StrictTypeCoercion"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="TitleResource" type="xs:string" use="optional" />
<xs:attribute name="DescriptionResource" type="xs:string" use="optional" />
<xs:attribute name="DataSource" type="xs:string" />
<xs:attribute name="ValidationFormula" type="xs:string" />
<xs:attribute name="ValidationMessage" type="xs:string" />
<xs:attribute name="DisableGridEditing"
    type="core:truefalse_Only_Lowercase" />
<xs:attribute name="BrowserFileHandling" type="SPBrowserFileHandling" />
<xs:attribute name="HasUniqueRoleAssignments"
    type="core:truefalse_Only_Lowercase" use="optional" />

```

```

        <xs:attribute name="ReadOnlyUI"
                    type="core:truefalse_Only_Lowercase" use="optional" />
</xs:complexType>

<xs:simpleType name="DefaultItemOpen">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Browser" />
    <xs:enumeration value="PreferClient" />
  </xs:restriction>
</xs:simpleType>

```

2.1.2.44.1 Attributes

Id: The identifier of the list (1).

Title: The title of the specified list (1).

TitleResource: The list (1) title used for a multilingual user interface (MUI). The value MUST be a resource token or a resource identifier.

RootFolderId: The identifier of the root folder of the list (1). This attribute is an object reference corresponding to the **Id** of a folder as specified in section [2.1.2.37](#). The referenced element MUST be in the deployment package (1).

RootFolderUrl: The store-relative URL with a leading slash for the root folder of the list (1).

ParentWebId: The identifier of the parent site (2). This attribute is an object reference corresponding to the identifier of a web site (2) as specified in section [2.1.2.58](#).

ParentWebUrl: The store-relative URL with a leading slash for the parent site (2).

BaseType: Reserved. Readers MUST ignore this value.

BaseTemplate: The identifier for the template included in the feature definition or **site definition** that defines the base structure of this list (1).

TemplateFeatureId: The identifier for the feature that defines the base schema of this list (1).

Description: The description of this list (1).

DescriptionResource: The list (1) description used for a multilingual user interface (MUI). The value MUST be a resource token or a resource identifier.

Direction: The direction of text flow for user interface elements presented by this list (1). The value MUST be one of the following:

| Value | Description |
|-------|-------------------------------------|
| none | No explicit direction is specified. |
| ltr | Text flow MUST be left to right. |
| rtl | Text flow MUST be right to left. |

DocumentTemplateId: The identifier of the default template to use when a document is created in this document library. MUST be NULL if this list (1) is not a document library.

EventSinkAssembly: The name of the assembly for the implementation of the backwards compatible event receiver associated with this list (1).

EventSinkClass: The fully qualified class name of the implementation of the backwards-compatible event receiver associated with this list (1).

EventSinkData: Additional data persisted on behalf of the backwards compatible event receiver implementation to be passed to the backwards compatible event receiver associated with this list (1).

SendToLocationName: The title for the "Send To Location" configured on this list (1). The **SendToLocation** is an implementation specific feature that facilitates saving copies of list items and documents to the remote location at the request of the user. The string length of value for **SendToLocationName** plus the string length of value for **SendToLocationUrl** MUST be no more than 511 characters.

SendToLocationUrl: The URL for the "Send To Location" configured on this list (1). The **SendToLocation** is an implementation specific feature that facilitates saving copies of list items and documents to the remote location at the request of the user. The string length of value for **SendToLocationName** plus the string length of value for **SendToLocationUrl** MUST NOT be more than 511 characters.

ImageUrl: The server-relative URL of the image used to represent this list (1).

Flags: An 8-byte unsigned integer bit mask providing metadata about the list (1), which can have one or more flags set. The values of the list (1) **Flags** bits are specified as follows. Additional constraints on the bits for this attribute value are specified by the other attributes of this complex type.

| Name | Value | Meaning |
|---------------------|--------------------|--|
| ORDEREDLIST | 0x0000000000000001 | This list (1) is an ordered list (1) (for example, a Links list (1)), and supports ordering and reordering of its items . |
| PUBLICLIST | 0x0000000000000002 | This list (1) is a "public list". This bit is intended to be ignored. |
| UNDELETABLELIST | 0x0000000000000004 | This list (1) cannot be deleted (for example, it is crucial to the functioning of the containing site (2) or site collection). |
| DISABLEATTACHMENTS | 0x0000000000000008 | Attachments on list items are disabled. This bit MUST be set if the list (1) is a document library. |
| CATALOGLIST | 0x0000000000000010 | This list (1) is a "catalog" (for example, a Web Part gallery (1), master page gallery (1) and so on). |
| MULTIPLEMTGDATALIST | 0x0000000000000020 | This list (1) is associated with a site (2) using the meetings workspace site template, and contains data scoped to each |

| Name | Value | Meaning |
|---------------------|--------------------|---|
| | | instance of a recurring meeting. |
| ENABLEASSIGNTOEMAIL | 0x0000000000000040 | This list (1) is intended to send alerts when a list item is assigned to a User. |
| VERSIONINGENABLED | 0x0000000000000080 | This list (1) has versioning enabled, and supports creating historical versions of list items when changes occur. |
| HIDDENLIST | 0x0000000000000100 | This list (1) is intended to be hidden from enumeration functions. This is intended for lists (1) implementing infrastructure for an application. |
| REQUESTACCESSDENIED | 0x0000000000000200 | This list (1) is configured to bring up a Page to fill out a form to request access from the owner when a user is denied access while browsing its list items. |
| MODERATEDLIST | 0x0000000000000400 | This list (1) has moderation enabled, requiring an approval process when content is created or modified. |
| ALLOWMULTIVOTE | 0x0000000000000800 | If this list (1) is a survey list , it specifies that multiple responses for a given User are allowed, rather than restricting users to a single response. This flag is ignored for lists (1) that are not survey lists. |
| USEFORCEDDISPLAY | 0x0000000000001000 | This list (1) is intended to use the value of each field's ForcedDisplay attribute (see [MS-WSSFO2] section 2.2.8.3.3<48>) when presenting data from that field (2). |
| DONSAVEINTEMPLATE | 0x0000000000002000 | This list (1) is not intended to be serialized as part of saving this site (2) as a site template. |
| ROOTWEBONLY | 0x0000000000004000 | The list (1) Server Template (see [MS-WSSFO2] section 2.2.3.12<49>) for this list (1) are intended to be instantiated only in the top-level site of a given site collection. |
| MUSTSAVEROOTFILES | 0x0000000000008000 | When a list (1) Server Template (see [MS-WSSFO2] section |

| Name | Value | Meaning |
|----------------------|----------------------|---|
| | | 2.2.3.12<50> is being created for this list, documents in the root of the list (1) are also intended to be serialized. |
| EMAILINSERTSEENABLED | 0x00000000000010000 | Insertion of list items via e-mail is enabled for this list (1). |
| PRIVATELIST | 0x00000000000020000 | This is a "private" list (1). When a list (1) server template (see [MS-WSSFO2] section 2.2.3.12<51>) based on this list (1) is created, the new list (1) is intended to be given an access control list (ACL) so that only its owner and administrators can access the list (1). |
| FORCECHECKOUT | 0x00000000000040000 | This document library requires the user to check out documents before modifying them. |
| MINORVERSIONENABLED | 0x00000000000080000 | This list (1) supports creation of minor versions on item revisions. |
| MINORAUTHOR | 0x00000000000100000 | This list (1) requires users have the EditListItems right to see minor versions of documents. |
| MINORAPPROVER | 0x00000000000200000 | This list (1) requires users have the ApproveItems permission to see minor versions of documents. |
| ENABLECONTENTTYPES | 0x00000000000400000 | The front-end Web server is intended to display a user interface for manipulating multiple content types (for example, a list (1) that contains both announcements and tasks). |
| FIELDSCHEMAMODIFIED | 0x00000000000800000 | This list (1) has had its schema customized from the version that exists in the on-disk schema file that was used to create it. |
| ENABLETHUMBNAIIS | 0x000000000001000000 | Document parsers in this list (1) are intended to generate thumbnail files corresponding to documents saved to this list (1). This bit MUST be ignored for lists (1) that are not document libraries. |

| Name | Value | Meaning |
|--------------------------------|--------------------|--|
| ALLOWEVERYONEVIEWITEMS | 0x0000000002000000 | List items in this list (1) are intended to be visible to anyone who has access to the list (1) itself. This is useful for shared resources such as the master page gallery (1), where one page is used throughout a site collection in Scopes with varying permissions. |
| WORKFLOWSASSOCIATED | 0x0000000004000000 | This list (1) currently has workflows associated with it. |
| DISABLEDEPLOYWITHDEPENDENTLIST | 0x0000000008000000 | This list (1) is not intended to be automatically exported when exporting a list (1) that references it. |
| DEFAULTITEMOPEN | 0x0000000010000000 | Applications generating server transformations of list items in this list (1) prefer to open the list item in a browser rather than in a separate client-side application. Server transformations are performed by server-side document viewers that can allow clients to view documents without additional client software. server transformations are an implementation-specific capability. |
| DISABLEFOLDERS | 0x0000000020000000 | Creation of folders will be blocked in this list (1). |
| RESTRICTEDTEMPLATELIST | 0x0000000040000000 | This list (1) is intended to not allow advanced views functionality, such as the datasheet view and views involving Web Part to Web Part connections. |
| HASCONTENTTYPEORDER | 0x0000000080000000 | This list (1) specifies custom sorting orders for the list (1) of content types available on a per- folder basis. |
| FORCEDEFAULTCONTENTTYPE | 0x0000000100000000 | When set to true, new items are assigned the default content type for the list (1). When set to false, the content type of the new item is used. The default value is false. |
| CACHESHEMA | 0x0000000200000000 | This list (1) is intended to have its schema cached in memory when possible, rather than |

| Name | Value | Meaning |
|--------------------------|--------------------|---|
| | | retrieving the schema every time the list (1) is accessed. |
| IGNORESEALEDATTR | 0x0000000400000000 | This bit MUST NOT be returned by the database. It is used internally when manipulating the schema of sealed fields (disallowing many classes of schema modifications). |
| NOCRAWL | 0x0000000800000000 | This list (1) is intended to not be processed by a search crawler. |
| ALWAYSINCLUDECONTENT | 0x0000001000000000 | Data from this list (1) is intended to be included when it is saved as a list (1) Server Template (see [MS-WSSFO2] section 2.2.3.12<52>), even if not otherwise requested. |
| DISALLOWCONTENTTYPES | 0x0000002000000000 | Content type manipulation is disabled on this list (1). |
| SYNDICATIONDISABLED | 0x0000004000000000 | Really Simple Syndication (RSS) feed (see [RSS2.0]) is disabled for this list (1). |
| IRMENABLED | 0x0000008000000000 | Information Rights Management (IRM) (see [MS-RMSI] section 1) is enabled for this document library. |
| IRMEXPIRE | 0x0000010000000000 | Expiration of Information Rights Management (IRM) (see [MS-RMSI] section 1) rights is enabled for this document library. Setting this bit requires the IRM (see [MS-RMSI] section 1) enabled bit also be set. |
| IRMREJECT | 0x0000020000000000 | Documents that do not have a registered Information Rights Management (IRM) (see [MS-RMSI] section 1) protector are blocked from this document library. |
| ENABLEPEOPLESELECTOR<53> | 0x0000080000000000 | Applicable to Calendar-type lists (1) only. If ENABLEPEOPLESELECTOR is set, the People Picker is shown in the List View. For any other lists (1) this flag MUST NOT be set. |
| HASVALIDATION<54> | 0x0000100000000000 | The list (1) has a validation |

| Name | Value | Meaning |
|---|--------------------|--|
| | | formula (see the ValidationFormula attribute). |
| ENABLERESOURCESELECTOR< 55 > | 0x0000200000000000 | Applicable to Calendar-type lists (1) only. If ENABLERESOURCESELECTOR is set, the Resource Picker is shown in the List View. For any other lists (1) this flag MUST NOT be set. |
| HASEXTERNALDATASOURCE< 56 > | 0x0000400000000000 | The list (1) has an external data source (see the DataSource attribute). |
| PRESERVEEMPTYVALUES< 57 > | 0x0000800000000000 | This flag affects calculated column values. If the flag is set, the value of any formula containing the reference to undefined column will be #NULL; otherwise undefined columns are treated as having default values. |
| HASLISTSCOPEUSERCUSTOMACTIONS< 58 > | 0x0001000000000000 | The list (1) has custom actions (see UserCustomActions child element). |
| EXCLUDEFROMOFFLINECLIENT< 59 > | 0x0002000000000000 | The list (1) is not available offline . |
| ENFORCEDATAVALIDATION< 60 > | 0x0004000000000000 | Data validation is enforced even for programmatically performed creations, updates of list items. If the flag is not set, validation only affects user interface actions. |
| DEFAULTITEMOPENUSELISTSETTING< 61 > | 0x0008000000000000 | The flag for this list with value 0x0000000010000000 MUST override any server-wide settings for server transformations. Server transformations are an implementation-specific feature. |
| ISAPPLICATIONLIST< 62 > | 0x0010000000000000 | This list (1) is part of the infrastructure of the site (2) that contains it and client applications treat it as a top level navigation object when displaying information about the site (2) that contains it. |
| DISABLEGRIDEDITING< 63 > | 0x0020000000000000 | Views of this list (1) do not display options to bulk edit data in a datasheet view. |

| Name | Value | Meaning |
|-------------------------------|--------------------|---|
| BROWSERFILEHANDLINGSTRICT<64> | 0x0040000000000000 | Browser execution of active content from files in this library is not allowed. |
| NAVIGATEFORFORMSPAGES<65> | 0x0080000000000000 | The user interface for forms in this list (1) navigates to form pages, instead of hosting the list (1) form in a modal dialog. |
| STRICTTYPECOERCION<66> | 0x0100000000000000 | Calculated expressions in this list (1) MUST return error values in the case of data type mismatch. |
| EVERENABLEDDRAFT<67> | 0x0200000000000000 | This list (1) at one time supported creation of minor versions on item revisions, so minor versions might exist for items in this list (1). |
| NEEDUPDATESITECLIENTTAG<68> | 0x0400000000000000 | When an item in this list (1) is modified, the application file cache version for the site (2) that contains this list (1) MUST be updated. |
| READONLYUI<69> | 0x0800000000000000 | This list (1) is intended to be displayed in a read-only mode . |
| | 0xFC00000000000000 | Unused. |

AllowDeletion: Specifies whether the list (1) can be deleted. If the value is false, the **UNDELETABLELIST** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

AllowMultiResponses: Specifies whether multiple responses are allowed for a given user when the list (1) is a survey list. The value MUST be ignored when the list (1) is not a survey list. If the value is true, the **ALLOWMULTIVOTE** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableAttachments: Specifies whether attachments on items are enabled. If the value is false, the **DISABLEATTACHMENTS** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableModeration: Specifies whether the list (1) has moderation enabled, requiring an approval process when content is created or modified. If the value is true, the **MODERATEDLIST** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableVersioning: Specifies whether the list (1) has versioning enabled and supports creating historical versions of list items when changes occur. If the value is true, the **VERSIONINGENABLED** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableMinorVersions: Specifies whether the list (1) supports creation of minor versions on item revisions. If the value is true, the **MINORVERSIONENABLED** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

RequestAccessEnabled: Specifies whether the list (1) is configured to bring up a page to fill out a form to request access from the owner when a user is denied access while browsing list items in the

list (1). If the value is false, the **REQUESTACCESSDENIED** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0. If the value of the **IncludeSecurity** attribute of type **SPIncludeSecurity** as specified in section [2.2.4.4](#) is none, this value MUST be ignored.

DraftVersionVisibility: The type of users who can view the minor version of the documents within the list (1). If the value is "Reader", the **MINORAUTHOR** flag of the **Flags** attribute MUST be 0, and the flag **MINORAPPROVER** of the **Flags** attribute MUST be 0. If the value is "Author", the **MINORAUTHOR** flag of the **Flags** attribute MUST be 1, and the flag **MINORAPPROVER** of the **Flags** attribute MUST be 0. If the value is "Approver", the **MINORAUTHOR** flag of the **Flags** attribute MUST be 0, and the **MINORAPPROVER** flag of the **Flags** attribute MUST be 1. If the value is "Author or Approver", at least one of **EnableModeration** or **EnableMinorVersions** MUST be **true**. The type of this attribute is specified in section [2.1.4.2](#).

ForceCheckout: Specifies whether the document library requires the user to check out documents before modifying them. If the value is true, the **FORCECHECKOUT** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

ExcludeFromTemplate: Specifies whether the list (1) is not serialized as part of saving this site (2) as a site template. If the value is true, the **DONTSAVEINTEMPLATE** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

ExcludeFromOfflineClient: Specifies whether the list (1) is available to offline clients. [<70>](#) If the value is true, the **EXCLUDEFROMOFFLINECLIENT** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

Hidden: Specifies whether the list (1) is hidden from enumeration functions. If the value is true, the **HIDDENLIST** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

MultipleDataList: Specifies whether the list (1) is associated with a site (2) using the meetings workspace site template and contains data scoped to each instance of a recurring meeting. If the value is true, the **MULTIPLEMTGDATALIST** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

Ordered: Specifies whether the list (1) is an ordered list (1) and supports ordering and reordering of its items. If the list (1) is not a **generic list**, this attribute MUST be ignored. If the value is true, the **ORDEREDLIST** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

ShowUser: Specifies whether the list (1) uses the value of each field's **ForcedDisplay** attribute (see [\[MS-WSSFO2\]](#) section 2.2.8.3.3 [<71>](#)) when presenting data from that field (2). If the value is true, the **USEFORCEDDISPLAY** flag in the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnablePeopleSelector: Applicable to Calendar-type lists (1) only. [<72>](#) If **EnablePeopleSelector** is true, the People Picker is shown in the List View. For any other lists (1), this flag MUST NOT be set. If the value is true, the **ENABLEPEOPLESELECTOR** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableResourceSelector: Applicable to Calendar-type lists (1) only. [<73>](#) If **EnableResourceSelector** is true, the Resource Picker is shown in the List View. For any other lists (1), this flag MUST NOT be set. If the value is true, the **ENABLERESOURCESELECTOR** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

NoThrottleListOperation: Specifies that the list (1) is exempt from the throttling mechanism, which prevents monopolization of back-end database server processing by intensively used or very large lists (1). [<74>](#) This flag MUST be ignored unless import is performed by or on behalf of the user in the **Farm Administrators group**.

Author: The identifier of the user who created this list (1). If the value is 0 or less than 0, the current user is used as author. If the attribute is not present, the current user is used as author.

Created: The created time of the list (1). MUST be ignored.

OnQuickLaunch: Specifies whether the list (1) is to be placed on **Quick Launch** navigation node. If the value is true, the value of **Hidden** MUST be false. If the value is true, the list (1) MUST have a default view. If the value is true and the **list template** uses root folder for navigation, there MUST be a navigation node, under the Quick Launch navigation node pointing to the root folder of the list (1). If the value is true and there is no list template for the list or the list template does not use root folder for navigation, there MUST be a navigation node, under the Quick Launch navigation node pointing to the default View of the list (1). The navigation node is specified in section [2.1.2.14](#).

ReadSecurity: Special restrictions that MUST be placed on list item access. This attribute is specified in section [2.1.4.6](#).

WriteSecurity: Special restrictions that can be placed on list item update. This attribute is specified in section [2.1.4.26](#).

Version: A counter incremented every time a change is made to the list (1).

MajorVersionLimit: The number of **major versions** that are retained for this document. A value of null specifies that versions MUST NOT automatically be removed for this list (1). If this attribute is present, **EnableVersioning** MUST be true. The value MUST be at least 0 and MUST NOT be greater than 50,000.

MajorWithMinorVersionsLimit: The number of major versions that have their associated minor versions retained for this document. A value of null specifies that versions MUST NOT automatically be removed for this list (1). If the attribute is present, at least one of **EnableMinorVersions** and **EnableModeration** MUST be true. The value MUST be at least 0 and MUST NOT be greater than 50,000.

EmailAlias: The e-mail alias of the list (1). This alias is used to allow files to be sent directly to this list (1) through an implementation-specific e-mail handling feature.

EnableContentTypes: Specifies whether the front-end Web servers display a user interface for manipulating multiple content types. If the value is true, the **ENABLECONTENTTYPES** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

NavigateForFormsPages: Specifies how links to this list's (1) **list forms** are handled. [<75>](#) If the value is true, links to list forms navigate the browser window to the list form. If the value is false, links to list forms open the list form in a modal dialog in the browser. If the value is true, the **NAVIGATEFORFORMSPAGES** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

NeedUpdateSiteClientTag: Specifies whether the application file cache version for the site (2) containing the list (1) MUST be updated when an item in the list (1) is updated. [<76>](#) If the value is true, the **NEEDUPDATESITECLIENTTAG** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableDeployWithDependentList: Specifies whether the list (1) is automatically written to the deployment package (1) when writing a list (1) that references it. If the value is false, the **DISABLEDEPLOYWITHDEPENDENTLIST** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableFolderCreation: Specifies whether creation of folders is allowed in the list (1). If the value is false, the **DISABLEFOLDERS** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

DefaultItemOpen: Specifies whether applications generating server transformations of list items in this list (1) prefer to open the list item in a browser, rather than in a separate client-side application. <77> Server transformations are performed by server-side document viewers that can allow clients to view documents without additional client software. If the value is "PreferClient", the **DEFAULTITEMOPEN** flag of the **Flags** attribute MUST be 0. If the value is "Browser", the **DEFAULTITEMOPEN** flag of the **Flags** attribute MUST be 1. The value MUST be one of the values in the following table.

| Value | Description |
|--------------|--|
| PreferClient | A separate client-side application is preferred to open the list item. |
| Browser | A browser is preferred to open the list item. |

DefaultItemOpenUseListSetting: If this attribute is omitted or is present and set to false, **DefaultItemOpen** attribute MUST be ignored; otherwise, the **DefaultItemOpen** attribute MUST be processed. <78> If the value is true, the **DEFAULTITEMOPENUSELISTSETTING** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableAssignToEmail: Specifies whether the list (1) sends alerts when a list item is assigned to a **User**. If the value is true, the **ENABLEASSIGNTOEMAIL** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnableSyndication: Specifies whether RSS feed syndication is enabled for the list (1). If the value is false, the **SYNDICATIONDISABLED** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

IrmEnabled: Specifies whether Information Rights Management (IRM) is enabled for this list (1). If the value is true, the **IRMENABLED** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

IrmExpire: Specifies whether expiration of the IRM is enabled for this list (1). If the value is true, the **IRMEXPIRE** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0. If this value is true, **IrmEnabled** MUST also be true.

IrmReject: Specifies whether documents that do not have a registered IRM protector are blocked from this list (1). If the value is true, the **IRMREJECT** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0. If this value is true, **IrmEnabled** MUST also be true.

NoCrawl: Specifies whether the list (1) is processed by a search crawler. If the value is true, the **NOCRAWL** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

EnforceDataValidation: Specifies whether data validation is enforced for programmatically performed creations, updates of list items. <79> If the value is false, validation only affects user interface actions. If the value is true, the **ENFORCEDATAVALIDATION** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

PreserveEmptyValues: Specifies the behavior of calculated column values. <80> If the value is true, the value of any formula containing the reference to undefined column is #NULL; otherwise, undefined columns are treated as having default values. If the value is true, the **PRESERVEEMPTYVALUES** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

StrictTypeCoercion: Specifies how calculated column formulas, validation formulas, and default value formulas are calculated for the list (1). <81> If the value is true, no automatic coercion is performed between data types except between numbers and dates; instead, the error #VALUE! is returned if a type mismatch is detected. If the value is **false**, automatic type coercion takes place between all data types. If the value is **true**, the **STRICTTYPECOERCION** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

DataSource: If **HASEXTERNALDATASOURCE** flag (see the preceding **Flag** attribute) is set, **DataSource** attribute MUST have a non-blank value defining an external data source. <82> Format is implementation-specific.

ValidationFormula: The formula to verify whether the values of **ListItem** fields (2) are acceptable and consistent. <83> This formula MUST be non-blank if the **HASVALIDATION** flag (see the **Flags** attribute) is set. The syntax of the formula is specified in [MS-CSOMSPT] section 3.2.5.79.1.1.43.

ValidationMessage: The message to display to the user if the **ValidationFormula** fails. <84>

DisableGridEditing: Specifies whether the protocol server offers an option for this list (1) to be bulk edited by a spreadsheet application. <85> If the value is true, the flag **DISABLEGRIDEDITING** of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

BrowserFileHandling: Specifies whether the file is allowed to be displayed in the web browser. <86> If the value is **SPBrowserHandling.Strict**, the **BROWSERFILEHANDLINGSTRICT** flag of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

HasUniqueRoleAssignments: Specifies whether role assignments are uniquely defined for the list (1) or inherited from parent site (2). <87> MUST be true if role assignments are uniquely defined for the list (1). Refer [MS-WSSO] section 2.9.1.8 for more information about inheritance. If **IncludeSecurity** of an **ExportSettings** element in the ExportSettings.xml file is not "None", this attribute MUST be present. It MUST NOT be present otherwise.

ReadOnlyUI: Specifies whether this list (1) is displayed in a read-only mode. <88> If the value is true, the flag **READONLYUI** of the **Flags** attribute MUST be 1; otherwise, the flag MUST be 0.

2.1.2.44.2 Child Elements

Fields: A collection of field (2) objects contained by this list (1). This child element is specified in [MS-WSSCAML] section 2.3.2.9.

ContentTypes: A collection of content type objects contained by this list (1). This child element is specified in [MS-WSSCAML] section 2.4.8.

Views: A collection of View objects contained by this list (1). This child element is specified in section 2.1.2.56. The files associated with the specified **View** objects MUST be in the deployment package (1).

Forms: A collection of List Form Web Part objects contained by this list (1). This child element is specified in section 2.1.2.39. The files associated with the specified List Form Web Part objects MUST be in the deployment package (1).

EventReceivers: A collection of event receivers that are registered for the list (1). The content of this element MUST conform to the schema of the **SPEventReceiverDefinitionCollection** complex type (see section 2.1.2.30). The value of the **EventReceiver.HostType** attribute of all event receivers within this collection MUST be list (1). The value of the **EventReceiver.HostId** attribute of all event receivers within this collection MUST be the value of this element's **Id** attribute. The value of the **EventReceiver.WebId** attribute of all event receivers within this collection MUST be the value of this element's **ParentWebId**.

DeletedFields: A collection of **DeletedField** objects contained by this element. This child element is specified in section [2.1.2.22](#).

DeletedViews: A collection of **DeletedView** elements denoting views which existed yet have been deleted for that list (1), as defined in section [2.1.2.20.<89>](#)

DeletedContentTypes: A collection of **DeletedContentType** elements denoting content types which existed yet have been deleted for that list (1), as defined in section. [<90>](#)

UserCustomActions: Extensions of standard user interface for pages displaying this list (1), as defined in section [2.1.2.51.<91>](#)

Resources: Collection of resources in the languages the site (2) supports, as defined in section [2.1.2.53.<92>](#)

FieldIndexes: A collection of composite field indices to accelerate sorting and queries for large lists (1), as defined in section [2.1.2.33.<93>](#)

2.1.2.45 SPListItem

Specifies a list item.

```
<xs:complexType name="SPListItem">
  <xs:sequence>
    <xs:element name="Fields" type="FieldDataCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Versions" type="SPListItemVersionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Attachments" type="SPAttachmentCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Links" type="SPLinkCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="EventReceivers"
      type="SPEventReceiverDefinitionCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>

  <xs:attribute name="FileUrl" type="xs:string" use="required" />
  <xs:attribute name="DocId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ParentFolderId"
    type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ProgId" type="xs:string" use="optional" />
  <xs:attribute name="Order" type="xs:float" use="optional" />
  <xs:attribute name="UserSolutionActivated" use="optional">
    <xs:simpleType>
      <xs:restriction base="xs:short">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
        <xs:enumeration value="2" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>

  <xs:attributeGroup ref="SPListItemBaseAttributeGroup"/>
</xs:complexType>
```

2.1.2.45.1 Attributes

The attributes in the **SPListItemBaseAttributeGroup** attribute group are specified in section [2.1.3.1](#). They also include the following:

DocId: The identifier of the file or folder associated with this list item. If the value of the **DocType** attribute is "file", this is an object reference corresponding to the **Id** of a **File** element of type **SPFile** as specified in section [2.1.2.35](#). The referenced element **MUST** be in the deployment package (1). If, the value of the **DocType** attribute is "Folder", this is an object reference corresponding to the **Id** of a **Folder** element of type **SPFolder** as specified in section [2.1.2.37](#). The referenced element **MUST** be in the deployment package (1). Otherwise, this attribute is reserved and **MUST** be a unique identifier.

FileUrl: The URL of the list item. If the value of the **DocType** attribute is **folder**, then this is the site-relative URL of the folder associated with this list item. If the value of the **DocType** attribute is **file** and this list item has a file associated with it, then this is the site-relative URL of the file associated with this list item. Otherwise, this is the site-relative URL of the list item itself.

ParentFolderId: The folder identifier of the folder that contains the list item. This is an object reference corresponding to the **Id** of a folder as specified in section [2.1.2.37](#).

ProgId: Programmatic identifier (ProgID) of the application associated with **ListItem** (if any).[<94>](#)

Order: Prescribes the display order of the **ListItems**. **ListItems** are shown in the ascending order of **Order** field (2) value.[<95>](#)

UserSolutionActivated: A sandboxed solution status value.[<96>](#) Applies only to the **ListItems** that belong to Solution Catalog document libraries. When set to 1, the solution **MUST** be activated once imported. For all **ListItems** which are not Solution Catalog document library items this field (2) has no meaning and **MUST** be omitted or set to 0.

The value **MUST** be one of the values in the following table:

| Value | Description |
|-------|--|
| 0 | The sandboxed solution has not been activated. |
| 1 | The sandboxed solution has been activated. |
| 2 | The sandboxed solution has been temporarily disabled because it exceeded its resource quota. |

2.1.2.45.2 Child Elements

Versions: The versions of the list item.

Fields: The fields (2) of the list item.

Attachments: The attachments of the list item.

Links: The links to or from the list item.

EventReceivers: Handlers of the events related to **ListItem**, such as **ItemAdding**, **ItemUpdated** and so on, as defined in section [2.1.2.30](#).[<97>](#)

2.1.2.46 SPListItemVersion

Specifies a version of a list item.

```
<xs:complexType name="SPListItemVersion">
  <xs:sequence>
    <xs:element name="Fields" type="FieldDataCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Attachments" type="SPAttachmentCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Links" type="SPLinkCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
  <xs:attributeGroup ref="SPListItemBaseAttributeGroup"/>
</xs:complexType>
```

2.1.2.46.1 Attributes

The attributes in the **SPListItemBaseAttributeGroup** attribute group are specified in section [2.1.3.1](#).

2.1.2.46.2 Child Elements

Fields: The fields (2) of the list item.

Attachments: The attachments of the list item.

Links: The links to or from the list item.

2.1.2.47 SPListItemVersionCollection

Specifies a collection of versions of a list item.

```
<xs:complexType name="SPListItemVersionCollection">
  <xs:sequence>
    <xs:element name="ListItem" type="SPListItemVersion"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.47.1 Child Elements

ListItem: A version of a list item.

2.1.2.48 SPPersonalization

Specifies per-user personalization of a Web Part.

```
<xs:complexType name="SPPersonalization">
  <xs:attribute name="UserId" type="xs:int" use="required" />
  <xs:attribute name="WebPartId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
</xs:complexType>
```

```

<xs:attribute name="WebPartOrder" type="xs:int" use="optional" />
<xs:attribute name="WebPartZoneId" type="String64" use="optional" />
<xs:attribute name="IsIncluded" type="core:TRUEFALSE" use="required" />
<xs:attribute name="FrameState" use="required" >
  <xs:simpleType>
    <xs:restriction base="xs:unsignedByte">
      <xs:enumeration value="0" />
      <xs:enumeration value="1" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="UserProperties" type="xs:base64Binary"
  use="optional" />
</xs:complexType>

```

2.1.2.48.1 Attributes

UserId: The user identifier of the user this personalization applies to. This is an object reference corresponding to the **Id** attribute of a **User** element of type **DeploymentUser** in the **UserGroup.xml** file as specified in section [2.7.2.3](#). The referenced element **MUST** be in the deployment package (1).

WebPartId: The identifier of the Web Part. This is an object reference corresponding to the **Name** attribute of a **WebPart** element of type **SPWebPart** in the **Manifest.xml** file as specified in section [2.1.2.59](#). The referenced element **MUST** be in the deployment package (1).

WebPartOrder: The relative position of the Web Part in the Web Part zone for the user this personalization applies to. **MUST** be a non-negative integer. Web Parts with lower values of the WebPartOrder parameter will be rendered first.

WebPartZoneId: Identifies the Web Part zone this Web Part belongs to for the user this personalization applies to.

IsIncluded: Specifies whether the Web Part is rendered for the user this personalization applies to.

FrameState: The Web Part chrome state for the user this personalization applies to. **MUST** be 0 or 1. 0 specifies Normal, 1 specifies Minimized.

UserProperties: A serialized representation of zero or more personalizable **properties** on the Web Part. If this value is NULL, then default values will be used for all of the Personalizable Properties on the Web Part.

2.1.2.49 SPPersonalizationCollection

Specifies a collection of personalization object instances.

```

<xs:complexType name="SPPersonalizationCollection">
  <xs:sequence>
    <xs:element name="Personalization" type="SPPersonalization"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

```

2.1.2.49.1 Child Elements

Personalization: An instance of a personalization object. The contents of this element MUST conform to the schema of SPPersonalization complex type (section [2.1.2.48](#)).

2.1.2.50 SPSite

Specifies a site collection.

```
<xs:complexType name="SPSite">
  <xs:sequence>
    <xs:element name="UserCustomActions"
      type="SPUserCustomActionCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces" />
</xs:complexType>
```

2.1.2.50.1 Attributes

Id: The identifier of the site collection.

2.1.2.50.2 Child Elements

UserCustomActions: Custom actions extending the site (2) user interface, as defined in section [2.1.2.51.<98>](#)

2.1.2.51 SPUserCustomActionCollection

Specifies custom actions, extending standard user interface for site (2), web, or list (1) pages. [<99>](#)

For example, custom actions might define buttons, combo boxes, menu items and other visual elements along with their appearance and behavior. The syntax of custom actions is implementation specific.

```
<xs:complexType name="SPUserCustomActionCollection">
  <xs:sequence>
    <xs:element name="UserCustomAction"
      type="SPUserCustomActionDefinition"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.51.1 Child Elements

UserCustomAction: A custom action user interface element as specified in section [2.1.2.52](#).

2.1.2.52 SPUserCustomActionDefinition

Specifies a custom action user interface element (its type, appearance and behavior). [<100>](#) The syntax of custom actions is implementation specific.


```

<xs:complexType name="SPUserCustomActionDefinition">
  <xs:sequence>
    <xs:any minOccurs="1" maxOccurs="2"
      namespace="##any" processContents="skip" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Version" type="xs:string" use="required" />
</xs:complexType>

```

2.1.2.52.1 Attributes

Id: The identifier of custom action.

Version: An implementation specific version identifier.

2.1.2.53 SPUserResourceCollection

Specifies the set of localized resources related to a particular deployment system object. [<101>](#) For example, list (1) called "Movies" in English might be shown as "Películas" in Spanish and so on, if the site (2) is designed as multilingual.

```

<xs:complexType name="SPUserResourceCollection">
  <xs:sequence>
    <xs:element name="Resource" type="SPUserResourceDefinition"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

```

2.1.2.53.1 Child Elements

Resource: A localized resource. This element MUST conform to the XML Schema of the **SPUserResourceDefinition** complex type specified in section [2.1.2.54](#).

2.1.2.54 SPUserResourceDefinition

Specifies a localized resource for a deployment system object. [<102>](#)

```

<xs:complexType name="SPUserResourceDefinition">
  <xs:sequence>
    <xs:element name="Data" type="SPUserResourceValues"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="Type" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:short">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>

```

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

2.1.2.54.1 Attributes

Name: Unique name of the resource.

Type: Specifies whether the resource string in the child **SPUserResourceValues** elements can span multiple lines. If **Type** is set to 0, the resource string is a single line and MUST be up to 256 characters long. If **Type** is set to 1, the resource string is a multi-line string and of unlimited length.

2.1.2.54.2 Child Elements

Data: A resource value as specified in section [2.1.2.55](#).

2.1.2.55 SPUserResourceValues

Specifies a resource value in one of the languages supported by the site (2).[<103>](#)

```
<xs:complexType name="SPUserResourceValues">
  <xs:attribute name="Language" type="xs:int" use="required" />
  <xs:attribute name="Dirty" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:boolean">
        <xs:pattern value="0|1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Value" type="xs:string" use="required" />
</xs:complexType>
```

2.1.2.55.1 Attributes

Language: An **language code identifier (LCID)** of the language.

Dirty: A flag set to **true** if the value of the language-specific resource is not up-to-date, that is, the default language value has been updated recently, but the value for this particular language has not been updated to reflect the change. When the site (2) is multilingual, one of the supported languages is set as the default. It is assumed that the authoring (for example, creating, updating) of the content is first done in the default language, and then from the default language translated into all non-default languages.

Value: Language-specific value for the resource.

2.1.2.56 SPView

Specifies a List View Web Part from a list (1) in a deployment package (1).

```
<xs:complexType name="SPView">
  <xs:group ref="core:ViewDefinitionChildElementGroup"/>
  <xs:attributeGroup ref="SPViewBaseAttributeGroup"/>
</xs:complexType>
```

```

<xs:attribute name="Name" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="DefaultView" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="Type" type="core:ViewType" use="optional" />
<xs:attribute name="MobileView" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="MobileDefaultView"
  type="core:truefalse_Only_Lowercase" use="required" />
<xs:attribute name="DefaultViewForContentType"
  type="core:truefalse_Only_Lowercase" use="required" />
<xs:attribute name="HackLockWeb" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="FailIfEmpty" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="FreeForm" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="FileDialog" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="AggregateView" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="IncludeRootFolder" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="IncludeVersions" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="ContentTypeID" type="core:ContentTypeID"
  use="optional" />
<xs:attribute name="Url" type="core:RelativeUrl" use="required" />
<xs:attribute name="FileId" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="TabularView"
  type="FALSE_Case_Insensitive_Else_Anything"
  use="optional" />
</xs:complexType>

```

2.1.2.56.1 Attributes

Name: The identifier for this List View Web Part. This is an object reference corresponding to the **Id** attribute of a **ViewForm** element of type **SPViewForm** in the ViewFormsList.xml file as specified in section [2.8.2.1](#). The referenced element **MUST** be in the deployment package (1) and the **Type** attribute of the corresponding element **MUST** be "View". This **Name** attribute is also an object reference corresponding to the **Name** attribute of a **WebPart** element of type **SPWebPart** as specified in section [2.1.2.59](#). The referenced element **MUST** be in the deployment package (1).

DefaultView: Specifies whether this Web Part displays a List View Web Part which is the default for the containing list (1).

Type: The type of this List View Web Part. The value **MUST** be one of the values in the following table.

| Value | Description |
|-------|--|
| HTML | HTML-based view. The VIEWFLAG_HTML bit (0x00000001) of the Flags attribute (specified in section |

| Value | Description |
|------------|---|
| | 2.1.3.2) MUST be 1 and the VIEWFLAG_GRID bit (0x00000800), VIEWFLAG_CHART bit (0x00020000), VIEWFLAG_CALENDAR bit (0x00080000), VIEWFLAG_GANTT bit (0x04000000) and VIEWFLAG_RECURRENCE_RS bit (0x00002000) bits of the Flags attribute (specified in section 2.1.3.2) MUST be 0. |
| GRID | Presents a datasheet view to a rich client application. The VIEWFLAG_GRID bit (0x00000800) of the Flags attribute (specified in section 2.1.3.2) MUST be 1. |
| CALENDAR | Displays data on a calendar based on date/time properties of the list items. The VIEWFLAG_CALENDAR bit (0x00080000) of the Flags attribute (specified in section 2.1.3.2) MUST be 1 and the VIEWFLAG_GRID bit (0x00000800) and VIEWFLAG_CHART bit (0x00020000) bits of the Flags attribute (specified in section 2.1.3.2) MUST be 0. |
| RECURRENCE | Requires that the List View Web Part data be expanded based on a calendar recurrence. For example, having a view of list item data for the first Thursday of every month. The RecurrenceRowset attribute (specified in section 2.1.3.2) MUST be true and the VIEWFLAG_RECURRENCE_RS bit (0x00002000) of the Flags attribute (specified in section 2.1.3.2) MUST be 1 and the VIEWFLAG_GRID bit (0x00000800), VIEWFLAG_CHART bit (0x00020000), VIEWFLAG_CALENDAR bit (0x00080000) and VIEWFLAG_GANTT bit (0x04000000) bits of the Flags attribute (specified in section 2.1.3.2) MUST be 0. |
| CHART | Displays HTML-based graphical charts of list item data. The VIEWFLAG_CHART bit (0x00020000) of the Flags attribute (specified in section 2.1.3.2) MUST be 1 and the VIEWFLAG_GRID bit (0x00000800) of the Flags attribute (specified in section 2.1.3.2) MUST be 0. |
| GANTT | Displays list item data in a Gantt chart. The VIEWFLAG_GANTT bit (0x04000000) of the Flags attribute (specified in section 2.1.3.2) MUST be 1 and the VIEWFLAG_GRID bit (0x00000800), VIEWFLAG_CHART bit (0x00020000) and VIEWFLAG_CALENDAR bit (0x00080000) bits of the Flags attribute (specified in section 2.1.3.2) MUST be 0. |

MobileView: Specifies whether this Web Part displays a List View Web Part which is intended for display on **mobile devices**. If the value is true then the VIEWFLAG_MOBILE bit (0x00800000) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

MobileDefaultView: Specifies whether this Web Part displays a List View Web Part, which is the default used when this list (1) is requested from a mobile device. If the value is true then the VIEWFLAG_MOBILEDEFAULT bit (0x00800000) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

DefaultViewForContentType: Specifies whether this Web Part displays a List View Web Part which is the default for a particular content type. If the value is true then the VIEWFLAG_CONTENTTYPEDEFAULT bit (0x10000000) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

HackLockWeb: Value is unused and MUST be ignored. If the value is true then the VIEWFLAG_LOCKWEB bit (0x00000010) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

FailIfEmpty: Specifies whether this Web Part displays a List View Web Part for which, if the query returns no list items, implementations of the front-end Web server returns an HTTP 410 "Gone" error status when displaying as part of an HTTP request, instead of displaying normally. If the value

is true then the VIEWFLAG_FAILIFEMPTY bit (0x00000040) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

FreeForm: Specifies whether this Web Part displays a List View Web Part which presents data in a nontabular fashion. Implementations can format results in a manner compatible with free-form presentation. If the value is true then the VIEWFLAG_FREEFORM bit (0x00000080) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

FileDialog: Specifies whether this Web Part displays a List View Web Part which is suitable for displaying in an HTML-based file navigation dialog to client applications. If the value is true then the VIEWFLAG_FILEDIALOG bit (0x00000100) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

AggregateView: Specifies whether this Web Part displays a List View Web Part which has functionality for aggregating data across multiple XML documents within an XML form library. If the value is true then the VIEWFLAG_AGGREGATIONVIEW bit (0x00000400) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

IncludeRootFolder: Specifies whether this Web Part displays a List View Web Part which fetches the list item for the root folder of the List View Web Part, in addition to the standard behavior of fetching list items contained within it. If the value is true then the VIEWFLAG_INCLUDEROOTFOLDER bit (0x08000000) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

IncludeVersions: Specifies whether this Web Part displays a List View Web Part which displays Historical Versions of list items. If the value is true then the VIEWFLAG_HISTORY bit (0x02000000) of the **Flags** attribute MUST be 1; otherwise, the bit MUST be 0.

ContentTypeID: If this attribute is present then this List View Web Part applies only to Folder content types for this content type identifier.

Url: The server-relative URL to Web Part Page that displays this List View Web Part.

FileId: An identifier for the Web Part Page that displays this List View Web Part. This **FileId** attribute is also an object reference corresponding to the **Id** attribute of a **File** element of type **SPFile** in the Manifest.xml file as specified in section [2.1.2.35](#). The referenced element MUST be in the deployment package (1).

TabularView: Specifies whether the view presents data in a tabular fashion, including check boxes for manipulating list items in the view. [<104>](#)

SPView also has other attributes as defined in section [2.1.3.2](#).

2.1.2.56.2 Child Elements

All of the child elements from the **core:ViewDefinitionChildElementGroup** of the **ViewDefinition** type as specified in [\[MS-WSSCAML\]](#) section 2.3.2.17 are allowed in this type.

2.1.2.57 SPViewCollection

Specifies a collection of List View Web Part objects.

```
<xs:complexType name="SPViewCollection">
  <xs:sequence>
    <xs:element name="View" type="SPView"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

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

2.1.2.57.1 Child Elements

View: A child element for each of the List View Web Part objects contained in this collection element.

2.1.2.58 SPWeb

Specifies a site (2).

```
<xs:complexType name="SPWeb">
  <xs:sequence>
    <xs:element name="Properties" type="Dictionary"
      minOccurs="1" maxOccurs="1"/>
    <xs:element name="SiteEventReceivers"
      type="SPEventReceiverDefinitionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="EventReceivers"
      type="SPEventReceiverDefinitionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="UserCustomActions"
      type="SPUserCustomActionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Resources"
      type="SPUserResourceCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ParentId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Name" type="String128" use="optional" />
  <xs:attribute name="Title" type="String255" use="optional" />
  <xs:attribute name="Locale" type="xs:string" use="optional" />
  <xs:attribute name="Language" type="xs:unsignedInt" use="optional" />
  <xs:attribute name="IsRootWeb" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="ServerRelativeUrl" type="String261"
    use="required" />
  <xs:attribute name="CurrencyLocaleId" type="xs:int" use="optional" />
  <xs:attribute name="RegionalSettingsLocaleId" type="xs:unsignedInt"
    use="required" />
  <xs:attribute name="RequestAccessEmail" type="String255"
    use="optional" />
  <xs:attribute name="TimeZoneId" type="xs:short" use="required" />
  <xs:attribute name="Time24" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="CalendarType" type="CalendarType" use="required" />
  <xs:attribute name="AdjustHijriDays" type="xs:short" use="required" />
  <xs:attribute name="Collation" type="Collation" use="required" />
  <xs:attribute name="AlternateCalendarType" type="AltCalendarType"
    use="required" />
  <xs:attribute name="ShowWeeks" type="core:truefalse_Only_Lowercase"
    use="required" />
```

```

<xs:attribute name="FirstWeekOfYear" type="FirstWeekOfYear"
  use="required" />
<xs:attribute name="WorkDays" type="xs:short" use="required" />
<xs:attribute name="WorkDayStartHour" type="WorkDayHour"
  use="required" />
<xs:attribute name="WorkDayEndHour" type="WorkDayHour" use="required" />
<xs:attribute name="FirstDayOfWeek" type="FirstDayOfWeek" use="required" />
<xs:attribute name="Description" type="xs:string" use="required" />
<xs:attribute name="AlternateHeader" type="String260" use="optional" />
<xs:attribute name="Author" type="xs:int" use="required" />
<xs:attribute name="Configuration" type="xs:short" use="required" />
<xs:attribute name="HasUniqueRoleAssignments"
  type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="HasUniqueRoleDefinitions"
  type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="Created" type="xs:dateTime" use="required" />
<xs:attribute name="ThemeComposite" type="String64"
  use="required" />
<xs:attribute name="ThemedCssFolderUrl" type="xs:string" use="optional" />
<xs:attribute name="WebTemplate" type="xs:string" use="required" />
<xs:attribute name="RootFolderId"
  type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="SystemCatalogsIncluded"
  type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="AlternateCssUrl" type="String260" use="required" />
<xs:attribute name="CustomizedCssFiles" type="String260"
  use="required" />
<xs:attribute name="CustomJSUrl" type="String260" use="required" />
<xs:attribute name="IncludeSupportingFolders"
  type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="SecurityProvider"
  type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="MasterUrl" type="String260"
  use="required" />
<xs:attribute name="CustomMasterUrl" type="String260"
  use="required" />
<xs:attribute name="SiteLogoUrl" type="String261" use="optional" />
<xs:attribute name="SiteLogoDescription" type="String255"
  use="required" />
<xs:attribute name="UseSharedNavigation"
  type="core:truefalse_Only_Lowercase" use="optional" />
<xs:attribute name="UIVersion" type="xs:int" use="optional" />
<xs:attribute name="ClientTag" type="xs:short" use="optional" />
<xs:attribute name="IsMultilingual" type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="AlternateUICultures" type="xs:string" use="optional" />
<xs:attribute name="OverwriteTranslationsOnChange"
  type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="AppInstanceId" type="core:UniqueIdentifierWithoutBraces"
  use="optional" />

```

```

<!-- flags -->
<xs:attribute name="NoCrawl" type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="AllowAutomaticASPXPageIndexing"
  type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="PresenceEnabled" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="SyndicationEnabled" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="QuickLaunchEnabled" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="TreeViewEnabled" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="ParserEnabled" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="Provisioned" type="core:truefalse_Only_Lowercase"
  use="required" />
<xs:attribute name="CacheAllSchema" type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="UIVersionConfigurationEnabled"
  type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="ExcludeFromOfflineClient"
  type="core:truefalse_Only_Lowercase"
  use="optional" />
<xs:attribute name="EnableMinimalDownload"
  type="core:truefalse_Only_Lowercase" use="optional" />
<xs:attribute name="ASPXPageIndexMode" use="optional">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Automatic" />
      <xs:enumeration value="Always" />
      <xs:enumeration value="Never" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

<xs:simpleType name="CalendarType">
  <xs:restriction base="xs:short">
    <xs:enumeration value="1" />
    <xs:enumeration value="3" />
    <xs:enumeration value="4" />
    <xs:enumeration value="5" />
    <xs:enumeration value="6" />
    <xs:enumeration value="7" />
    <xs:enumeration value="8" />
    <xs:enumeration value="9" />
    <xs:enumeration value="10" />
    <xs:enumeration value="11" />
    <xs:enumeration value="12" />
    <xs:enumeration value="14" />
    <xs:enumeration value="15" />
    <xs:enumeration value="16" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="Collation">

```



```

    <xs:restriction base="xs:short">
      <xs:minInclusive value="0" />
      <xs:maxInclusive value="38" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="AltCalendarType">
    <xs:restriction base="xs:short">
      <xs:enumeration value="0" />
      <xs:enumeration value="1" />
      <xs:enumeration value="3" />
      <xs:enumeration value="4" />
      <xs:enumeration value="5" />
      <xs:enumeration value="6" />
      <xs:enumeration value="7" />
      <xs:enumeration value="8" />
      <xs:enumeration value="9" />
      <xs:enumeration value="10" />
      <xs:enumeration value="11" />
      <xs:enumeration value="12" />
      <xs:enumeration value="14" />
      <xs:enumeration value="15" />
      <xs:enumeration value="16" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="FirstWeekOfYear">
    <xs:restriction base="xs:short">
      <xs:enumeration value="0" />
      <xs:enumeration value="1" />
      <xs:enumeration value="2" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="FirstDayOfWeek">
    <xs:restriction base="xs:short">
      <xs:minInclusive value="0" />
      <xs:maxInclusive value="6" />
    </xs:restriction>
  </xs:simpleType>

```

2.1.2.58.1 Attributes

Id: The identifier of the site (2).

ParentId: The identifier of the parent Deployment Object for this site (2). MUST be an **empty GUID** if the **IsRootWeb** attribute is true, otherwise MUST be the same as the **ParentId** of the **SPObj** element which is the parent element of this Web element.

Name: The name of the site (2). The name MUST be an empty string (2) if the **IsRootWeb** attribute is **true**.

Title: The title of the site (2).

Locale: The display name of the current culture for regional language-specific data formatting such as currency or date/time settings that are associated with the site (2). If present MUST be ignored.

Language: The LCID associated with the site (2) which is used to control the language resources to be used to display messages on the **front-end Web server**. This is an object reference corresponding to the **Id** of a Requirement element of type **SPRequirement** in the **Requirements.xml** file as specified in section [2.4.2.2](#). The referenced element MUST be in the deployment package (1).

IsRootWeb: Specifies whether the site (2) is the top-level site.

ServerRelativeUrl: The server-relative URL of the site (2). MUST begin with a slash.

CurrencyLocaleId: Reserved. If present MUST be ignored.

RegionalSettingsLocaleId: The LCID associated with the site (2) which is used to control the current culture for regional language specific data formatting such as currency or date/time settings.

RequestAccessEmail: The e-mail address to which requests for access to the site (2) are sent. If **IncludeSecurity** of an **ExportSettings** element in the ExportSettings.xml file is not "None", this attribute MUST be present. It MUST NOT be present otherwise.

TimeZoneId: The time zone identifier for the time zone to be used when displaying time values. [<105>](#)

Time24: Specifies whether to use a 24-hour clock notation when displaying time values for this site (2). When true, a 24-hour clock notation is used, otherwise a 12-hour clock notation is used.

CalendarType: The date display format used by the site (2). MUST be one of the Calendar Types as specified in [\[MS-WSSFO2\]](#) section 2.2.3.3. [<106>](#)

AdjustHijriDays: The number of days to extend or reduce the current month in Hijri calendars.

Collation: The collation order as specified in [\[MS-WSSFO2\]](#) section 2.2.3.4 [<107>](#) used on the site (2).

AlternateCalendarType: The alternative date display format used by the site (2). The value MUST be either 0 (meaning None) or one of the Calendar Types as specified in [\[MS-WSSFO2\]](#) section 2.2.3.3. [<108>](#)

ShowWeeks: Specifies whether to show week numbers in the user interface when displaying calendars on the site (2).

FirstWeekOfYear: Specifies how the first week of the year is handled by the calendars on the server. The value MUST be one of the values described in the following table.

| Value | Description |
|-------|--|
| 0 | The year starts on January 1. |
| 1 | The year starts with the first complete week. |
| 2 | The year starts with the first week of at least four days. |

WorkDays: The week days defined as the work week for this site (2). The value MUST be as specified in [\[MS-WSSFO2\]](#) section 2.2.2.13. [<109>](#)

WorkDayStartHour: The time, in minutes after midnight, at which the work day starts on the calendar in use on the server.

WorkDayEndHour: The time, in minutes after midnight, at which the work day ends on the calendar in use on the server.

FirstDayOfWeek: The first day of the week used in the calendars on the server. The value MUST be one of the values described in the following table.

| Value | Day |
|-------|-----------|
| 0 | Sunday |
| 1 | Monday |
| 2 | Tuesday |
| 3 | Wednesday |
| 4 | Thursday |
| 5 | Friday |
| 6 | Saturday |

Description: The description of the site (2).

AlternateHeader: The **store-relative form** of the URL for a custom header HTML page used in pages of the site (2).

Author: A user identifier of the User who created the site (2). MUST either be equal to 1073741823 (which is the **Id** of the built-in System Account) or be an object reference corresponding to the **Id** of a User element of type **DeploymentUser** in the UserGroup.xml file as specified in section [2.7.2.3](#). If Author is an object reference, the referenced element MUST be in the deployment package (1).

Configuration: The identifier of the site template configuration that is used to provision this site (2).

HasUniqueRoleAssignments: Specifies whether role assignments are uniquely defined for the site (2) or inherited from a parent site (2). MUST be true if role assignments are uniquely defined for the site (2). Refer to [\[MS-WSSO\]](#) section 2.9.1.8 for more information about inheritance. If **IncludeSecurity** of an **ExportSettings** element in the ExportSettings.xml file is not "None" this attribute MUST be present. It MUST NOT be present otherwise. If present MUST be **true** if **IsRootWeb** is **true**.

HasUniqueRoleDefinitions: Specifies whether Role Definitions are uniquely defined for this site (2) or inherited from a parent site (2). **true** if Role Definitions are uniquely defined for this site (2). See [\[MS-WSSO\]](#) section 2.9.1.8 for more information about inheritance. If **IncludeSecurity** of an **ExportSettings** element in the ExportSettings.xml file is not "None" this attribute MUST be present. It MUST NOT be present otherwise. If present, MUST be **true** if **IsRootWeb** is **true**.

Created: The date and time in UTC format when the site (2) was created.

ThemeComposite: The **theme** that is applied to the site (2). MUST be an empty string (2) or a Theme-Specification as defined in [\[MC-FPSEWM\]](#) section 2.2.2.2.24.

ThemedCssFolderUrl: For the Webs which have the theme, contains server-relative URL pointing to the folder with the web's themed **cascading style sheet (CSS)**.[<110>](#)

WebTemplate: The name of the site template used to **provision** this site (2). This is an object reference corresponding to the template name in the **Id** attribute of a **Requirement** element of

type **SPRequirement** in the Requirements.xml file as specified in section [2.4.2.2](#). The referenced element MUST be in the deployment package (1).

RootFolderId: The identifier of the root folder for the site (2). This is an object reference corresponding to the **Id** of a Folder element of type **SPFolder** as specified in section [2.1.2.37](#). The referenced element MUST be in the deployment package (1).

SystemCatalogsIncluded: Reserved. MUST be **true**.

AlternateCssUrl: The store-relative form of the URL for a custom cascading style sheet (CSS) files used by pages of the site (2).

CustomizedCssFiles: A list (1) of custom cascading style sheet (CSS) files associated with this site (2). Consists of lowercase **CSS** file names (without extension) as specified by **CSSLIST** using the **Augmented Backus-Naur Form (ABNF)** syntax, as specified in [\[RFC5234\]](#):

```
CSSLIST = ' ' / SEP 1*(FILE SEP)
SEP = ';#'
```

Where FILE is the lowercase name of the CSS file (without extension).

The following are examples: ";#file1;#file2;#file3;#"

CustomJSUrl: The store-relative form of the URL to custom JavaScript files used by Pages of the site (2).

IncludeSupportingFolders: Specifies whether **thicket folders** and their content are included in enumerations of **files** or folders in the site (2).

SecurityProvider: The identifier of the **security provider (1)**.

MasterUrl: The store-relative form of the URL for the master page used by the Pages of the site (2).

CustomMasterUrl: The store-relative form of the URL for the custom master page file used by the pages of the site (2).

SiteLogoUrl: The server-relative URL of the site (2) logo.

SiteLogoDescription: The description of the site (2) logo.

ClientTag: An integer value that represents the application file cache version for files in the site (2).<[111](#)>

UseSharedNavigation: Specifies whether this site (2) uses the navigation bars of its parent site (2).<[112](#)>

UIVersion: Specifies the version of User Interface the site (2) is using.<[113](#)> MUST be 3 or 4.

IsMultilingual: Specifies whether the site (2) supports multiple languages.<[114](#)>

AlternateUICultures: In case the site (2) is indeed multilingual, this string MUST contain semicolon-delimited list (1) of LCID identifiers of all supported languages.<[115](#)> For example, "1035;1053" means "Finnish and Swedish languages are supported". If **IsMultilingual** is true, this attribute MUST be present, otherwise MUST NOT be present.

OverwriteTranslationsOnChange: A flag which defines a mechanism for updating multilingual content (if indeed the site (2) is multilingual).<116> One language among supported ones is always assigned as default, or master, language. Depending on this flag, once the master language content is updated, non-default language content is overwritten with default language value (if this flag is **true**), or retains its non-default language value, though it becomes out of date (if this flag is **false**). If **IsMultilingual** is **true**, this attribute **MUST** be present, otherwise **MUST NOT** be present.

AppInstanceId: If present and not an empty GUID, the app instance identifier for the application associated with this site (2).<117>

NoCrawl: Specifies whether crawling is enabled for the site (2).

AllowAutomaticASPXPageIndexing: Specifies whether the ASPX pages within the site (2) are allowed to be indexed by search crawler if the **ASPXPageIndexMode** attribute is set to "Automatic". If **IncludeSecurity** of an **ExportSettings** element in the ExportSettings.xml file (as specified in section 2.2.2.3.1) is not **None** this attribute **MUST** be present. This attribute **MUST NOT** be present otherwise.

PresenceEnabled: Specifies whether this site (2) allows display of implementation-specific user presence information in the user interface.

SyndicationEnabled: Specifies whether this site (2) has enabled syndication of list items using RSS.

TreeViewEnabled: Specifies whether the user interface for this site (2) displays a hierarchical Navigation.

QuickLaunchEnabled: Specifies whether the user interface for this site (2) displays the Quick Launch navigational element.

ParserEnabled: Specifies whether document parsing is enabled for the site (2).

Provisioned: Specifies whether the site (2) has been provisioned.

CacheAllSchema: Specifies whether caching of all schemas on the site (2) is enabled.

ASPXPageIndexMode: Specifies whether the .aspx pages of the site (2) are automatically indexed. The value **MUST** be one of the values in the following table.

| Value | Description |
|-----------|---|
| Automatic | The search crawler MUST index the page if SPWeb.AllowAutomaticASPXPageIndexing is true ; otherwise, MUST NOT index. |
| Always | The search crawler MUST index all .aspx files in the web site (2). |
| Never | The search crawler MUST never index .aspx files in this web site (2). |

UIVersionConfigurationEnabled: If **true**, the site (2) administrator can configure the version of the user interface (see the **UIVersion** attribute).<118>

ExcludeFromOfflineClient: Specifies whether this site (2) is visible to offline clients.<119>

EnableMinimalDownload: Specifies whether the site (2) will use the minimal download strategy by default.<120>

The minimal download strategy will use a single .aspx file (start.aspx) for your pages, with the actual URL encoded in the text following the hashmark ('#'). When navigating from page to page, only the changes between two compatible pages will be downloaded. Fewer bytes will be downloaded and the page will appear more quickly.

2.1.2.58.2 Child Elements

Properties: The site (2) properties. The contents of this element MUST conform to the schema of **Dictionary** complex type (section [2.1.2.16](#)).

SiteEventReceivers: A collection of event receivers that are registered for the site collection this site (2) belongs to. [<121>](#) The contents of this element MUST conform to the schema of **SPEventReceiverDefinitionCollection** complex type (section [2.1.2.30](#)). The value of the **EventReceiver.HostType** attribute of all event receivers within this collection MUST be "Site". The value of the **EventReceiver.HostId** attribute of all event receivers within this collection MUST be the **Id** of the site collection this site (2) belongs to (see section [2.1.2.50](#)). The value of the **EventReceiver.WebId** attribute of all event receivers within this collection MUST be the value of this element's **Id**.

EventReceivers: A collection of event receivers that are registered for the site (2). The contents of this element MUST conform to the schema of **SPEventReceiverDefinitionCollection** complex type (section [2.1.2.30](#)). The value of the **EventReceiver.HostType** attribute of all event receivers within this collection MUST be "Web". The value of the **EventReceiver.HostId** attribute of all event receivers within this collection MUST be the value of this element's **Id** attribute. The value of the **EventReceiver.WebId** attribute of all event receivers within this collection MUST be the value of this element's **Id**.

UserCustomActions: Extensions of standard user interface for pages displaying this site (2), as defined in section [2.1.2.51](#). [<122>](#)

Resources: Collection of site (2) resources in the languages the site (2) supports, as defined in section [2.1.2.53](#). [<123>](#)

2.1.2.59 SPWebPart

Specifies a Web Part object instance appearing in one of the Web Part Page **documents** in this deployment package (1).

```
<xs:complexType name="SPWebPart">
  <xs:group ref="core:ViewDefinitionChildElementGroup"/>
  <xs:attributeGroup ref="SPViewBaseAttributeGroup"/>

  <xs:attribute name="Name" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="UserId" type="xs:int" use="optional" />
  <xs:attribute name="ListId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="ListRootFolderUrl" type="core:RelativeUrl"
    use="optional" />
  <xs:attribute name="Version" type="xs:int" use="optional" />
  <xs:attribute name="AllUsersProperties" type="xs:base64Binary"
    use="optional" />
  <xs:attribute name="PerUserProperties" type="xs:base64Binary"
    use="optional" />
  <xs:attribute name="Source" type="xs:string" use="optional" />
  <xs:attribute name="ContentTypeId" type="core:ContentTypeId"
```

```

        use="optional" />
<xs:attribute name="Assembly" type="xs:string" use="optional" />
<xs:attribute name="Class" type="xs:string" use="optional" />
<xs:attribute name="SolutionId" type="core:UniqueIdentifierWithoutBraces"
        use="optional" />
<xs:attribute name="Type" use="optional">
  <xs:simpleType>
    <xs:restriction base="xs:int">
      <xs:minInclusive value="-1" />
      <xs:maxInclusive value="10" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Level" use="required">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="major" />
      <xs:enumeration value="minor" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

2.1.2.59.1 Attributes

SPWebPart can have any attribute defined in the **SPViewBaseAttributeGroup** attribute group as specified in section [2.1.3.2](#). In addition, it has the following attributes:

Name: The identifier for this Web Part instance.

UserId: The security principal (2) identifier of the user who created the Web Part on a **personalized Web Parts Pages**. If **Personal** is false, this attribute MUST NOT be present. This **UserId** attribute is an object reference corresponding to the **Id** attribute of a **User** element of type **DeploymentUser** in the UserGroup.xml file as specified in section [2.7.2.3](#).

ListId: If this Web Part is a List View Web Part or List Form Web Part, this is the identifier for the target list (1). Otherwise MUST NOT be present.

ListRootFolderUrl: If this Web Part is a List View Web Part or List Form Web Part, this is a **Server-**relative URL to the root folder of the target list (1). Otherwise MUST NOT be present.

Version: The version of the Web Part.

AllUsersProperties: A serialized representation of zero or more customizable properties on the Web Part. If this value is NULL, default values are used for all of the customizable properties on the Web Part.

PerUserProperties: A serialized representation of zero or more personalizable properties on the Web Part. If this value is NULL, default values will be used for all of the personalizable properties on the Web Part.

Source: A collection of Web Part properties in a string format as specified in [\[MS-WPPS\]](#) section 2.2.4.5.<124>

ContentTypeId: If this attribute is present, this Web Part displays a List View Web Part to be shown to users, only when in the context of the **Folder** content types for this content type identifier.

Type: The Page Type of this Web Part as specified in [\[MS-WSSFO2\]](#) section 2.2.3.14.<125>

Level: A value specifying the **publishing level** of the Web Part. The value **MUST** be one of the values in the following table.

| Value | Description |
|-------|---|
| major | A Web Part in a Published state shown to all users who have access to it. |
| minor | A Web Part in a Draft state shown to only to users who have permissions to see Web Parts in a draft state. |

Assembly: Fully qualified assembly name of the assembly that contains this Web Part (for Web Parts deployed as part of the solution).<126>

Class: Name of the class defining this Web Part is (for Web Parts deployed as part of the solution).<127>

SolutionId: The identifier of the solution this Web Part belongs to (for Web Parts deployed as part of the solution).<128>

2.1.2.59.2 Child Elements

All of the child elements of the core:ViewDefinitionChildElementGroup of the ViewDefinition type as specified in [\[MS-WSSCAML\]](#) section 2.3.2.17 are allowed in this type.

2.1.2.60 SPWebPartCollection

Specifies a collection of Web Part objects.

```
<xs:complexType name="SPWebPartCollection">
  <xs:sequence>
    <xs:element name="WebPart" type="SPWebPart"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.1.2.60.1 Child Elements

WebPart: A Web Part object contained in this collection.

2.1.3 Attribute Groups

2.1.3.1 SPListItemBaseAttributeGroup

This group specifies the base attributes for a list item or for a version of a list item.


```

<xs:attributeGroup name="SPListItemBaseAttributeGroup">
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="DirName" type="xs:string" use="optional" />
  <xs:attribute name="Version" type="VersionString"
    use="optional" default="1.0" />
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="IntId" type="xs:int" use="required" />
  <xs:attribute name="Author" type="xs:int" use="optional" />
  <xs:attribute name="ModifiedBy" type="xs:int" use="optional" />
  <xs:attribute name="TimeCreated" type="xs:dateTime" use="optional" />
  <xs:attribute name="TimeLastModified" type="xs:dateTime" use="optional" />
  <xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ParentListId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ModerationStatus" type="SPModerationStatusType"
    use="optional" />
  <xs:attribute name="ContentTypeId" type="xs:string" use="optional" />
  <xs:attribute name="ThreadIndex" type="xs:string" use="optional" />
  <xs:attribute name="DocType" type="ListItemDocType" default="File" />
  <xs:attribute name="UserLoginName" type="xs:string" use="optional" />
  <xs:attribute name="GroupName" type="xs:string" use="optional" />
  <xs:attribute name="FailureMessage" type="xs:string" use="optional" />
</xs:attributeGroup>

```

2.1.3.1.1 Attributes

Name: The name of the list item.

DirName: The directory name of the list item.

Version: The version of the list item.

Id: The identifier of the list item.

IntId: The identifier of the list item within its containing list (1).

Author: The identifier of the user who created the list item.

ModifiedBy: The identifier of the user who most recently edited the list item.

TimeCreated: The date and time when the list item was created, which MUST be in UTC format.

TimeLastModified: The date and time when the list item was last modified, which MUST be in UTC format.

ParentWebId: The site identifier of the site (2) that contains the list item. This is an object reference corresponding to the **Id** of a site (2) as specified in section [2.1.2.58](#).

ParentListId: The list identifier of the list (1) that contains the list item. This is an object reference corresponding to the **Id** attribute of a list (1) as specified in section [2.1.2.44](#).

ModerationStatus: The current **moderation status** of this list item MUST be one of the values from the **SPModerationStatusType** simple type as specified in section [2.1.4.13](#).

ContentTypeId: The content type identifier of the content type of the list item. This is an object reference corresponding to the **Id** of a **ContentType** element of type **SPContentType** as specified in section [2.1.2.27](#). The referenced element **MUST** be in the deployment package (1).

ThreadIndex: If the value of the **BaseType** attribute of the parent list (1) is "DiscussionBoard", this is the position of the list item within the list (1) that contains the list item. Otherwise, this attribute **MUST NOT** be present.

DocType: The document type of the list item. **MUST** be one of the values from the **ListItemDocType** simple type as specified in section [2.1.4.4](#).

UserLoginName: If the list (1) that contains the list item is a **user information list** and the list item represents a user, then this is the login name of that user. Otherwise, this attribute **MUST NOT** be present.

GroupName: If the list (1) that contains the list item is a user information list and the list item represents a user group, this is the name of that user group. Otherwise, this attribute **MUST NOT** be present.

FailureMessage: An implementation-specific failure message generated when the list item was written to the deployment package (1).

2.1.3.2 SPViewBaseAttributeGroup

Attributes in this group specify details about a List View Web Part. They are used by **View** elements of type **SPView**, as specified in section [2.1.2.56](#). They are also used by **WebPart** elements of type **SPWebPart**, as specified in section [2.1.2.59](#), if those Web Parts are List View Web Parts.

```
<xs:attributeGroup name="SPViewBaseAttributeGroup">
  <xs:attribute name="Flags" type="xs:unsignedInt" use="optional" />
  <xs:attribute name="Personal" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="Hidden" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="Threaded" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="FPModified" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="ReadOnly" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="RecurrenceRowset" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="ModerationType" use="optional">
    <xs:simpleType>
      <xs:restriction base="core:ViewModerationType">
        <xs:enumeration value="Moderator" />
        <xs:enumeration value="Contributor" />
        <xs:enumeration value="" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="OrderedView" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="Scope" type="core:ViewScope"
    use="optional" default="" />
  <xs:attribute name="DisplayName" type="String255" use="optional" />
  <xs:attribute name="BaseViewID" type="xs:int" use="optional" />
</xs:attributeGroup>
```

```

<xs:attribute name="WebPartZoneID" type="String64" use="optional" />
<xs:attribute name="WebPartTypeId"
  type="core:UniqueIdentifierWithOrWithoutBraces" />
<xs:attribute name="IsIncluded" type="core:truefalse_Only_Lowercase"
  use="optional" default="true" />
<xs:attribute name="WebPartOrder" type="xs:int" use="optional" />
<xs:attribute name="FrameState" use="required" >
  <xs:simpleType>
    <xs:restriction base="xs:unsignedInt">
      <xs:enumeration value="0" />
      <xs:enumeration value="1" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="WebPartIdProperty" type="String255" />
</xs:attributeGroup>

```

2.1.3.2.1 Attributes

Flags: A 4-byte unsigned integer representation of a bit mask corresponding to view flag properties. The valid values of the view flag bits are specified in [\[MS-WSSFO2\]](#) section 2.2.2.12. <129> Additional constraints on the bits for this attribute value are specified by the other attributes of this complex type.

Personal: Specifies whether this Web Part displays a **personal view**. If the value is true then the VIEWFLAG_PERSONAL bit (0x00040000) of the **Flags** attribute MUST be 1, otherwise the bit MUST be 0.

Hidden: Specifies whether this Web Part displays a List View Web Part which is not displayed in enumerations of the List View Web Parts of this list (1). If the value is true then the VIEWFLAG_HIDDEN bit (0x00000008) of the **Flags** attribute MUST be 1, otherwise the bit MUST be 0.

Threaded: Specifies whether this Web Part displays a threaded view for **discussion boards**. If the value is true then the VIEWFLAG_THREADED bit (0x00010000) of the **Flags** attribute MUST be 1, otherwise the bit MUST be 0.

FPMmodified: Specifies whether this Web Part has been modified by a client application such that it is not compatible with the Web interface for List View Web Part modification. If the value is true then the VIEWFLAG_FPMODIFIED bit (0x00000002) of the **Flags** attribute MUST be 1, otherwise the bit MUST be 0.

ReadOnly: Specifies whether this Web Part is read-only. If the value is true then the VIEWFLAG_READONLY bit (0x00000020) of the **Flags** attribute MUST be 1, otherwise the bit MUST be 0.

RecurrenceRowset: Specifies whether this Web Part displays a List View Web Part which expands data based on a calendar recurrence. If the value is true then the VIEWFLAG_RECURRENCE_RS bit (0x00002000) of the **Flags** attribute MUST be 1, otherwise the bit MUST be 0.

ModerationType: The moderation type of the List View Web Part displayed by this Web Part. This value MUST be one of the values described in the following table.

| Value | Description |
|-------------|--|
| Moderator | This Web Part displays a List View Web Part of a moderated list (1) showing list items for all Users which have a pending or rejected Moderation Status. The VIEWFLAG_MODTYPEMODERATOR bit (0x00008000) of the Flags attribute MUST be 1 and the VIEWFLAG_MODTYPECONTRIBUTOR bit (0x00004000) of the Flags attribute MUST be 0. |
| Contributor | This Web Part displays a List View Web Part of a Moderated Lists showing list items for the current User which have a pending or rejected Moderation Status. The VIEWFLAG_MODTYPECONTRIBUTOR bit (0x00004000) of the Flags attribute MUST be 1. |
| (empty) | If the value is an empty string (2), the Web Part displays a List View Web Part without additional Moderation Status criteria. The VIEWFLAG_MODTYPEMODERATOR bit (0x00008000) and VIEWFLAG_MODTYPECONTRIBUTOR bit (0x00004000) bits of the Flags attribute MUST be 0. |

OrderedView: Specifies whether this Web Part displays a List View Web Part with ordering based on the explicit item order of the list (1). If the value is true then the VIEWFLAG_ORDERED bit (0x00400000) of the **Flags** attribute MUST be 1, otherwise the bit MUST be 0.

Scope: The recursive scope of the List View Web Part displayed by this Web Part. The value MUST be one of the values described in the following table.

| Value | Description |
|--------------|---|
| FilesOnly | This Web Part displays a List View Web Part which displays immediate child list items of the specified folder, not including subfolders. The VIEWFLAG_FILESONLY bit (0x00200000) of the Flags attribute MUST be 1 and the VIEWFLAG_RECURSIVE bit (0x00001000) of the Flags attribute MUST be 0. |
| Recursive | This Web Part displays a List View Web Part which displays all child list items recursively from the specified folder, not including subfolders. The VIEWFLAG_FILESONLY bit (0x00200000) of the Flags attribute MUST be 1 and the VIEWFLAG_RECURSIVE bit (0x00001000) of the Flags attribute MUST be 1. |
| RecursiveAll | This Web Part displays a List View Web Part which displays all child list items recursively from the specified folder, including subfolders. The VIEWFLAG_FILESONLY bit (0x00200000) of the Flags attribute MUST be 0 and the VIEWFLAG_RECURSIVE bit (0x00001000) of the Flags attribute MUST be 1. |
| (empty) | If the value is an empty string (2), this Web Part displays a List View Web Part which displays immediate child list items of the specified folder, including subfolders. The VIEWFLAG_FILESONLY bit (0x00200000) of the Flags attribute MUST be 0 and the VIEWFLAG_RECURSIVE bit (0x00001000) of the Flags attribute MUST be 0. |

DisplayName: The Display Name for this List View Web Part.

BaseViewID: The identifier for the base view for the Web Part.

WebPartZoneID: The name identifier of the Web Part zone containing this Web Part.

WebPartTypeId: The **Web Part type identifier** for this Web Part.

IsIncluded: Specifies whether this Web Part is visible when displaying the Web Part Page.

WebPartOrder: Ordinal number indicating the location of the Web Part in relation to other Web Parts in the same Web Part zone.

FrameState: The frame state of the Web Part. The value MUST be one of the values described in the following table.

| Value | Description |
|-------|---|
| 0 | Normal: The Web Part is displayed in its normal state, with title, content, and placement within the page. |
| 1 | Minimized: The Web Part is collapsed so that only the title portion of the frame appears. |

WebPartIdProperty: The optional identifier of the Web Part. If present, it MUST be unique per page, not start with a number, and contain only a combination of alphanumeric characters and underscores. [<130>](#)

2.1.4 Simple Types

2.1.4.1 Direction

Specifies the direction of text flow for user interface elements presented by a list (1).

```
<xs:simpleType name="Direction">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="none" />  
    <xs:enumeration value="ltr" />  
    <xs:enumeration value="rtl" />  
  </xs:restriction>  
</xs:simpleType>
```

The value MUST be one of the values described in the following table.

| Value | Description |
|-------|-------------------------------------|
| none | No explicit direction is specified. |
| ltr | Text flow is left to right. |
| rtl | Text flow is right to left. |

2.1.4.2 DraftVisibilityType

Specifies which users can view the drafts within a list (1).

```
<xs:simpleType name="DraftVisibilityType">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="Reader" />  
    <xs:enumeration value="Author" />  
    <xs:enumeration value="Approver" />  
  </xs:restriction>  
</xs:simpleType>
```

The value MUST be one of the values described in the following table.

| Value | Description |
|----------|--|
| Reader | Users who can read list items can view the drafts. |
| Author | Users who can edit list items can view the drafts. |
| Approver | Users who can approve list items can view the drafts. Authors of a list item can also view drafts of that list item. |

2.1.4.3 FeatureVersion

Specifies the version of a feature in a pattern of digits and dots (such as "14.0.1.2"), to keep track of upgrades. [<131>](#)

```
<xs:simpleType name="FeatureVersion">
  <xs:restriction base="xs:string">
    <xs:pattern value="\d+\.\d+\.\d+\.\d+" />
  </xs:restriction>
</xs:simpleType>
```

2.1.4.4 ListItemDocType

Specifies the values for the document type of a list item.

```
<xs:simpleType name="ListItemDocType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="File" />
    <xs:enumeration value="Folder" />
  </xs:restriction>
</xs:simpleType>
```

The value MUST be one of the values described in the following table.

| Value | Description |
|--------|----------------------------|
| File | The list item is a file. |
| Folder | The list item is a folder. |

2.1.4.5 PackageFileName

Specifies a name of a binary file contained in a deployment package (1).

```
<xs:simpleType name="PackageFileName">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="255"/>
  </xs:restriction>
</xs:simpleType>
```

```

    <xs:pattern value="[a-fA-F\d]{8}.dat"/>
  </xs:restriction>
</xs:simpleType>

```

2.1.4.6 ReadSecurity

Specifies the restriction on read access to the list items in a list (1).

```

<xs:simpleType name="ReadSecurity">
  <xs:restriction base="xs:int">
    <xs:enumeration value="1" />
    <xs:enumeration value="2" />
  </xs:restriction>
</xs:simpleType>

```

The value MUST be one of the values described in the following table.

| Value | Description |
|-------|---|
| 1 | No special restrictions. |
| 2 | Users see only their own list items. The front-end Web server MUST NOT display list items to users without the ManageLists right unless the list item was created by that user. The ManageLists right is specified in [MS-WSSFO2] section 2.2.2.14. <132> |

2.1.4.7 ScopeObjectType

Specifies the type of an object.

```

<xs:simpleType name="ScopeObjectType">
  <xs:restriction base="xs:int">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="2"/>
  </xs:restriction>
</xs:simpleType>

```

The value MUST be one of the values described in the following table.

| Value | Description |
|-------|---------------------------------------|
| 0 | The object is a site (2). |
| 1 | The object is a list (1). |
| 2 | The object is a document or list item |

2.1.4.8 SecurityModificationType

Specifies the operation performed by an element that specifies a modification to a deployment system object.

```

<xs:simpleType name="SecurityModificationType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Add" />
    <xs:enumeration value="Delete" />
    <xs:enumeration value="Update" />
    <xs:enumeration value="MemberAdd" />
    <xs:enumeration value="MemberDelete" />
    <xs:enumeration value="RoleAdd" />
    <xs:enumeration value="RoleDelete" />
    <xs:enumeration value="RoleUpdate" />
    <xs:enumeration value="RoleAssignmentAdd" />
    <xs:enumeration value="RoleAssignmentDelete" />
    <xs:enumeration value="ScopeAdd" />
    <xs:enumeration value="ScopeDelete" />
  </xs:restriction>
</xs:simpleType>

```

The value MUST be one of the values described in the following table.

| Value | Description |
|------------------------------------|--|
| Add | Add a new deployment system object. |
| Delete | Delete an existing deployment system object. |
| Update | Modify an existing deployment system object. |
| MemberAdd | Add a member to an existing security group. |
| MemberDelete | Delete a member from an existing security group. |
| RoleAdd | Add a new role. |
| RoleDelete | Delete an existing role. |
| RoleUpdate | Update an existing role. |
| RoleAssignmentAdd | Add a new role assignment. |
| RoleAssignmentDelete | Delete an existing role assignment. |
| ScopeAdd< 133 > | Add new security scope. |
| ScopeDelete< 134 > | Delete a security scope. |

2.1.4.9 SPBaseType

Specifies the underlying type of a list (1).

```

<xs:simpleType name="SPBaseType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="GenericList" />
    <xs:enumeration value="DocumentLibrary" />
    <xs:enumeration value="DiscussionBoard" />
    <xs:enumeration value="Survey" />
    <xs:enumeration value="Issue" />
  </xs:restriction>
</xs:simpleType>

```



```

    </xs:restriction>
</xs:simpleType>

```

This value MUST be one of the values described in the following table.

| Value | Description |
|-----------------|------------------------------|
| GenericList | A generic list (1). |
| DocumentLibrary | A document library. |
| DiscussionBoard | A discussion board list (1). |
| Survey | A survey list. |
| Issue | An issues list (1). |

2.1.4.10 SPBrowserFileHandling

Specifies whether the file is allowed to be displayed in the web browser. [<135>](#)

```

<xs:simpleType name="SPBrowserFileHandling">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Permissive" />
    <xs:enumeration value="Strict" />
  </xs:restriction>
</xs:simpleType>

```

The value MUST be one of the values in the following table.

| Value | Description |
|------------|--|
| Permissive | Specifies that content-types that allow script are allowed to be displayed in the Web browser. |
| Strict | Specifies that content-types that allow script MUST be forced to download. |

2.1.4.11 SPEventReceiverSynchronization

Specifies the manner the Event Receiver is invoked. [<136>](#)

```

<xs:simpleType name="SPEventReceiverSynchronization">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Default" />
    <xs:enumeration value="Synchronous" />
    <xs:enumeration value="Asynchronous" />
  </xs:restriction>
</xs:simpleType>

```

The value MUST be one of the values in the following table.

| Value | Description |
|--------------|--|
| Asynchronous | Event receiver is invoked after (but not necessary immediately after) the event occurs. |
| Default | By default, "before" events, for example ListAdding, are Synchronous, while "after" events, for example ListAdded, are Asynchronous. See section 2.1.2.29.1 , Type attribute for the list (1) of all event types. |
| Synchronous | Event receiver is invoked right before or after the related deployment object is imported, and the import process waits for the Event Receiver to complete its action. |

2.1.4.12 SPListTemplateType

Specifies a list template of a list (1) object.

```

<xs:simpleType name="SPListTemplateType">
  <xs:union>
    <xs:simpleType>
      <xs:restriction base='xs:positiveInteger' />
    </xs:simpleType>
    <xs:simpleType>
      <xs:restriction base='xs:string'>
        <xs:enumeration value="GenericList" />
        <xs:enumeration value="DocumentLibrary" />
        <xs:enumeration value="Survey" />
        <xs:enumeration value="Links" />
        <xs:enumeration value="Announcements" />
        <xs:enumeration value="Contacts" />
        <xs:enumeration value="Events" />
        <xs:enumeration value="Tasks" />
        <xs:enumeration value="DiscussionBoard" />
        <xs:enumeration value="PictureLibrary" />
        <xs:enumeration value="DataSources" />
        <xs:enumeration value="WebTemplateCatalog" />
        <xs:enumeration value="UserInformation" />
        <xs:enumeration value="WebPartCatalog" />
        <xs:enumeration value="ListTemplateCatalog" />
        <xs:enumeration value="SolutionCatalog" />
        <xs:enumeration value="XMLForm" />
        <xs:enumeration value="MasterPageCatalog" />
        <xs:enumeration value="NoCodeWorkflows" />
        <xs:enumeration value="WorkflowProcess" />
        <xs:enumeration value="WebPageLibrary" />
        <xs:enumeration value="CustomGrid" />
        <xs:enumeration value="DataConnectionLibrary" />
        <xs:enumeration value="WorkflowHistory" />
        <xs:enumeration value="GanttTasks" />
        <xs:enumeration value="Meetings" />
        <xs:enumeration value="Agenda" />
        <xs:enumeration value="MeetingUser" />
        <xs:enumeration value="Decision" />
        <xs:enumeration value="MeetingObjective" />
        <xs:enumeration value="TextBox" />
        <xs:enumeration value="ThingsToBring" />
        <xs:enumeration value="HomePageLibrary" />
        <xs:enumeration value="Posts" />
        <xs:enumeration value="Comments" />
        <xs:enumeration value="Categories" />
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>

```

```

        <xs:enumeration value="IssueTracking" />
        <xs:enumeration value="AdminTasks" />
        <xs:enumeration value="ThemeCatalog" />
        <xs:enumeration value="NoCodePublic" />
        <xs:enumeration value="AssetLibrary" />
    </xs:restriction>
</xs:simpleType>
</xs:union>
</xs:simpleType>

```

The value MUST be one of the values in the following table or any integer that has been defined as a list (1) Template type, as specified in [\[MS-WSSFO2\]](#) section 2.2.3.12. [<137>](#)

| Value | Description |
|---|------------------------------------|
| GenericList | Generic list template. |
| DocumentLibrary | Document library template. |
| Survey | Survey template. |
| Links | Links template. |
| Announcements | Announcements template. |
| Contacts | Contacts template. |
| Events | Events template. |
| Tasks | Tasks template. |
| DiscussionBoard | Discussion template. |
| PictureLibrary | Image library template. |
| DataSources | Data sources template. |
| WebTemplateCatalog | Web template catalog template. |
| UserInformation | User information catalog template. |
| WebPartCatalog | Web Part gallery (1) template. |
| ListTemplateCatalog | List template catalog template. |
| SolutionCatalog <138> | Solution catalog template. |
| XMLForm | XML form template. |
| MasterPageCatalog | Master page catalog template. |
| NoCodeWorkflows | No code workflow template. |
| WorkflowProcess | Workflow process template. |
| WebPageLibrary | Webpage library template. |
| CustomGrid | Custom grid template. |

| Value | Description |
|-------------------------------------|-------------------------------------|
| DataConnectionLibrary | Data connection library template. |
| WorkflowHistory | Workflow history template. |
| GanttTasks | Gantt tasks template. |
| Meetings | Meetings template. |
| Agenda | Agenda template. |
| MeetingUser | Meeting user template. |
| Decision | Decision (meeting) template. |
| MeetingObjective | Meeting objectives template. |
| TextBox | Textbox template. |
| ThingsToBring | Things to bring (meeting) template. |
| HomePageLibrary | Homepage library template. |
| Posts | Posts (blog) template. |
| Comments | Comments (blog) template. |
| Categories | Categories (blog) template. |
| IssueTracking | Issue tracking template. |
| AdminTasks | Admin tasks template. |
| ThemeCatalog< 139 > | Theme catalog template. |
| NoCodePublic< 140 > | NoCodePublic template. |
| AssetLibrary< 141 > | Asset library template. |

2.1.4.13 SPModerationStatusType

Specifies the moderation status of a list item.

```
<xs:simpleType name="SPModerationStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Approved" />
    <xs:enumeration value="Denied" />
    <xs:enumeration value="Pending" />
    <xs:enumeration value="Draft" />
    <xs:enumeration value="Scheduled" />
  </xs:restriction>
</xs:simpleType>
```

The value MUST be one of the values described in the following table.

| Value | Description |
|-----------|--|
| Approved | The list item is approved. |
| Denied | The list item has been denied approval. |
| Pending | The list item is pending approval. |
| Scheduled | The list item has been scheduled for automatic approval at a future date. |
| Draft | The list item is a draft. That is, it has not been approved or denied approval or scheduled for automatic approval and it is not pending approval. |

2.1.4.14 SPRoleChangeType

Specifies the type of a role or role assignments change.

```
<xs:simpleType name="SPRoleChangeType">
  <xs:restriction base="xs:int">
    <xs:enumeration value="0"/>
    <xs:enumeration value="1"/>
    <xs:enumeration value="2"/>
    <xs:enumeration value="4"/>
    <xs:enumeration value="10"/>
    <xs:enumeration value="20"/>
    <xs:enumeration value="26"/>
  </xs:restriction>
</xs:simpleType>
```

This is a set of bit flags. The flag values described in the following table are defined.

| Value (decimal) | Value (hexadecimal) | Name | Description |
|-----------------|---------------------|----------------------|--|
| 0 | 0x0 | Normal | This is not an actual flag, but represents the case where none of the flags is set. |
| 1 | 0x1 | Reinherit | If this flag is set, the inheritance of role definitions and role assignments from the parent site (2) will be re-established. |
| 2 | 0x2 | UniqueRoleDefinition | If this flag is set, the inheritance of role definitions from the parent site (2) will be broken. |
| 4 | 0x4 | UniqueAssignment | If this flag is set, the inheritance of role assignments from the parent object will be broken. |
| 8 | 0x8 | CopyRoleDefinition | If this flag is set, the role definitions are copied from the parent object to the child before breaking the inheritance. If UniqueRoleDefinition is set but this flag is not set, default role definitions will be assigned to the child. |
| 16 | 0x10 | CopyAssignment | If this flag is set, the role assignments are copied from the parent object to the child before |

| Value (decimal) | Value (hexadecimal) | Name | Description |
|-----------------|---------------------|------|--|
| | | | breaking the inheritance. If UniqueRoleDefinition or UniqueAssignment is set but this flag is not set, the role assignments for the child will be empty except for a default role assignment that will be created for the security principal (2) that performed the operation. |

Valid flag combinations are described in the following table.

| Value | Combination of flags |
|-------|--|
| 0 | Normal |
| 1 | Reinherit |
| 2 | UniqueRoleDefinition |
| 4 | UniqueAssignment |
| 10 | UniqueRoleDefinition + CopyRoleDefinition |
| 20 | UniqueAssignment + CopyAssignment |
| 26 | UniqueRoleDefinition + CopyRoleDefinition + CopyAssignment |

All combinations NOT explicitly mentioned in the table are invalid and MUST NOT be used.

2.1.4.15 SPRoleType

Specifies a role type.

```
<xs:simpleType name="SPRoleType">
  <xs:restriction base="xs:int">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="5"/>
  </xs:restriction>
</xs:simpleType>
```

The value MUST be one of the values described in the following table.

| Value | Role Type |
|-------|---------------|
| 0 | Custom |
| 1 | Browser |
| 2 | Reader |
| 3 | Contributor |
| 4 | Author |
| 5 | Administrator |

2.1.4.16 String128

Specifies a string containing less than or equal to 128 characters.

```
<xs:simpleType name="String128">
  <xs:restriction base="xs:string">
    <xs:maxLength value="128"/>
  </xs:restriction>
</xs:simpleType>
```

2.1.4.17 String255

Specifies a string containing less than or equal to 255 characters.

```
<xs:simpleType name="String255">
  <xs:restriction base="xs:string">
    <xs:maxLength value="255"/>
  </xs:restriction>
</xs:simpleType>
```

2.1.4.18 String255NonEmpty

Specifies a string containing greater than or equal to 1 and less than or equal to 255 characters.

```
<xs:simpleType name="String255NonEmpty">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="255"/>
  </xs:restriction>
</xs:simpleType>
```

2.1.4.19 String256

Specifies a string containing less than or equal to 256 characters.

```
<xs:simpleType name="String256">
  <xs:restriction base="xs:string">
    <xs:maxLength value="256"/>
  </xs:restriction>
</xs:simpleType>
```

2.1.4.20 String260

Specifies a string containing less than or equal to 260 characters.

```
<xs:simpleType name="String260">
  <xs:restriction base="xs:string">
    <xs:maxLength value="260"/>
  </xs:restriction>
</xs:simpleType>
```

```
</xs:restriction>
</xs:simpleType>
```

2.1.4.21 String261

Specifies a string containing less than or equal to 261 characters.

```
<xs:simpleType name="String261">
  <xs:restriction base="xs:string">
    <xs:maxLength value="261"/>
  </xs:restriction>
</xs:simpleType>
```

2.1.4.22 String512

Specifies a string containing less than or equal to 512 characters.

```
<xs:simpleType name="String512">
  <xs:restriction base="xs:string">
    <xs:maxLength value="512"/>
  </xs:restriction>
</xs:simpleType>
```

2.1.4.23 String64

Specifies a string containing less than or equal to 64 characters.

```
<xs:simpleType name="String64">
  <xs:restriction base="xs:string">
    <xs:maxLength value="64"/>
  </xs:restriction>
</xs:simpleType>
```

2.1.4.24 StringNonEmpty

Specifies a string containing greater than or equal to 1 characters.

```
<xs:simpleType name="StringNonEmpty">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
  </xs:restriction>
</xs:simpleType>
```


2.1.4.25 WorkDayHour

Specifies the time of the day in minutes after midnight. For example: 0 means 00:00, 600 means 10:00, 720 means 12:00, 1320 means 22:00, and so on.

```
<xs:simpleType name="WorkDayHour">
  <xs:restriction base="xs:short">
    <xs:minInclusive value="0" />
    <xs:maxInclusive value="1439" />
  </xs:restriction>
</xs:simpleType>
```

2.1.4.26 WriteSecurity

Specifies the restriction on write access to the list items in a list (1).

```
<xs:simpleType name="WriteSecurity">
  <xs:restriction base="xs:int">
    <xs:enumeration value="1" />
    <xs:enumeration value="2" />
    <xs:enumeration value="4" />
  </xs:restriction>
</xs:simpleType>
```

The value MUST be one of the values described in the following table.

| Value | Description |
|-------|---|
| 1 | No special restrictions. |
| 2 | Users can modify only their own list items. The front-end Web server MUST NOT allow a user without the ManageLists right to modify a list item unless the list item was created by that user. The ManageLists right is specified in [MS-WSSFO2] section 2.2.2.14. <142> |
| 4 | Users cannot modify any list items in the list (1). The front-end Web server MUST NOT allow users without the ManageLists right to add or modify list items in the list (1). |

2.2 ExportSettings.xml

This part of the package contains information about the settings that were in place when the package was produced. The root element is defined as follows:

```
<xs:element name="ExportSettings" type="SPExportSettings" />
```

2.2.1 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 describes these namespaces.

| Prefix | Namespace URI | Reference |
|--------|--------------------------------------|--|
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1] [XMLSCHEMA2] |
| (none) | urn:deployment-exportsettings-schema | |
| core | urn:deployment-exportsettings-schema | This specification is using the XML schema defined in [MS-WSSCAML] , but replacing the "http://schemas.microsoft.com/sharepoint/wire" targetNamespace of the schema with "urn:deployment-exportsettings-schema". |

2.2.2 Complex Types

2.2.2.1 SPExportObject

Specifies a site collection, site (2), or list item from which the deployment package (1) was generated.

```
<xs:complexType name="SPExportObject">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Type" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Site" />
        <xs:enumeration value="Web" />
        <xs:enumeration value="ListItem" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="ParentId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Url" type="xs:string"
    use="optional" />
  <xs:attribute name="ExcludeChildren" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="IncludeDescendants" type="SPIncludeDescendants"
    use="required" />
  <xs:attribute name="ExportChangeToken" type="SPExportChangeToken"
    use="optional" />
</xs:complexType>
```

2.2.2.1.1 Attributes

Id: Either an empty GUID or the identifier of the deployment system object. When not an empty GUID, this is an **object reference** corresponding to the **Id** attribute of a deployment system object as specified in section [2.1.2.40](#). If the value is an empty GUID, the **Url** attribute MUST specify a URL of a deployment system object.

Type: The type of deployment system object. This MUST be one of the values in the following table.

| Value | Description |
|----------|--|
| Site | The deployment system object is a site collection. |
| Web | The deployment system object is a site (2). |
| ListItem | The deployment system object is a list item. |

ParentId: Reserved. This value SHOULD be 00000000-0000-0000-0000-000000000000. The value MAY [<143>](#) be an object reference to the Id attribute of the parent deployment system object as specified in section [2.1.2.40](#).

Url: The URL of the deployment system object. If this attribute is absent, the **Id** attribute MUST specify the identifier of a deployment system object. The value of this attribute MUST conform to the restrictions described in the following table, based on the value of the **Type** attribute.

| Value | Description |
|----------|---|
| Site | The value MUST be set to a slash (/). |
| Web | The value MUST be the server-relative URL of the site (2). |
| ListItem | The value MUST be the server-relative URL of the list item. |

ExcludeChildren: Reserved. Readers MUST ignore this attribute.

IncludeDescendants: Reserved. Readers MUST ignore this attribute.

ExportChangeToken: Reserved. Readers MUST ignore this attribute. This attribute MUST NOT be present if the **ExportMethod** attribute of the **ExportSettings** element of type **SPEXportSettings** as specified in section [2.2.2.3](#) is **ExportAll**.

2.2.2.2 SPEXportObjectCollection

Specifies the site collection or sites (2) or list items from which this deployment package (1) was generated.

```
<xs:complexType name="SPEXportObjectCollection">
  <xs:sequence>
    <xs:element
      name="DeploymentObject" type="SPEXportObject"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.2.2.2.1 Child Elements

DeploymentObject: A site collection, site (2), or list item from which this deployment package (1) was generated. If any **DeploymentObject** element has the **Type** attribute set to site (2), then that element MUST be the only child element in the collection.

2.2.2.3 SPEXportSettings

Specifies the settings that were used when generating the deployment package (1).

```

<xs:complexType name="SPExportSettings">
  <xs:sequence>
    <xs:element name="ExportObjects" type="SPExportObjectCollection" />
  </xs:sequence>
  <xs:attribute name="SiteUrl" type="xs:string" use="required" />
  <xs:attribute name="FileLocation" type="xs:string" use="required" />
  <xs:attribute name="BaseFileName" type="xs:string" use="required" />
  <xs:attribute name="IncludeSecurity" type="SPIncludeSecurity"
    use="required" />
  <xs:attribute name="IncludeVersions" type="SPIncludeVersions"
    use="required" />
  <xs:attribute name="ExportMethod" type="SPExportMethodType"
    use="required" />
  <xs:attribute name="ExportPublicSchema" fixed="true" use="required" />
  <xs:attribute name="ExcludeDependencies"
    type="core:truefalse_Only_Lowercase" use="required" />
  <xs:attribute name="ExportFrontEndFileStreams"
    type="core:truefalse_Only_Lowercase" default="true" />
</xs:complexType>

```

2.2.2.3.1 Attributes

SiteUrl: The absolute URL of the site collection from which this deployment package (1) was generated.

FileLocation: An implementation-specific file path. [<144>](#) Readers MUST ignore this attribute.

BaseFileName: An implementation-specific file name. [<145>](#) Readers MUST ignore this attribute.

IncludeSecurity: Specifies the user and group information included in the deployment package (1).

IncludeVersions: Specifies which versions of deployment system objects are included in the deployment package (1).

ExportMethod: This protocol allows writers to make an implementation-specific choice of one of the values specified in section [2.2.4.2](#). Readers MUST ignore this attribute.

ExportPublicSchema: This protocol allows writers to make an implementation specific choice of one of the values specified in [\[MS-WSSCAML\]](#) section 2.1.13. Readers MUST ignore this attribute.

ExcludeDependencies: Specifies whether the deployment package (1) contains deployment system objects which are not descendants of one of the deployment system objects in the **ExportObjects** element. Readers MUST ignore this value.

ExportFrontEndFileStreams: Specifies whether the deployment package (1) contains uncustomized files. Readers MUST ignore this value. [<146>](#)

2.2.2.3.2 Child Elements

ExportObjects: The site collection, sites (2), or list items from which this deployment package (1) was generated.

2.2.3 Attribute Groups

None.

2.2.4 Simple Types

2.2.4.1 SPExportChangeToken

Specifies an implementation-specific token string.

```
<xs:simpleType name="SPExportChangeToken">
  <xs:restriction base="xs:string">
    <xs:pattern value="\d+;\d+;[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12};\d+;\d+"/>
    <xs:maxLength value="120"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.4.2 SPExportMethodType

Specifies whether the deployment package (1) contains all content from the source or only incremental changes since a particular timestamp.

```
<xs:simpleType name="SPExportMethodType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ExportAll" />
    <xs:enumeration value="ExportChanges" />
  </xs:restriction>
</xs:simpleType>
```

This type MUST be one of the values described in the following table.

| Value | Description |
|---------------|--|
| ExportAll | The deployment package (1) contains all content from the source. |
| ExportChanges | The deployment package (1) only contains incremental changes since a particular timestamp. |

2.2.4.3 SPIncludeDescendants

Specifies whether descendants of a deployment system object are included in the deployment system object.

```
<xs:simpleType name="SPIncludeDescendants">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Content" />
    <xs:enumeration value="All" />
  </xs:restriction>
</xs:simpleType>
```

This type MUST be one of the values described in the following table.

| Value | Description |
|---------|---|
| Content | Descendants of the deployment system object are not included. |
| All | Descendants of the deployment system object are included. |

2.2.4.4 SPIncludeSecurity

Specifies the user and group information included in the deployment package (1).

```
<xs:simpleType name="SPIncludeSecurity">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="WssOnly" />
    <xs:enumeration value="All" />
  </xs:restriction>
</xs:simpleType>
```

This type MUST be one of the values described in the following table.

| Value | Description |
|---------|---|
| None | No user or group information. |
| WssOnly | Only user and group information for users and groups referenced by other deployment system objects within the deployment package (1). |
| All | All user and group information. |

| Value | Description |
|---------|---|
| None | No user or group information. |
| WssOnly | Only user and group information for users and groups referenced by other deployment system objects within the deployment package (1). |
| All | All user and group information. |

2.2.4.5 SPIncludeVersions

Specifies which versions of deployment system objects are included in the deployment package (1).

```
<xs:simpleType name="SPIncludeVersions">
  <xs:restriction base="xs:string">
    <xs:enumeration value="LastMajor" />
    <xs:enumeration value="CurrentVersion" />
    <xs:enumeration value="LastMajorAndMinor" />
    <xs:enumeration value="All" />
  </xs:restriction>
</xs:simpleType>
```

This type MUST be one of the values described in the following table.

| Value | Description |
|-------------------|--|
| LastMajor | The most recent major version of list items and documents. |
| CurrentVersion | The most recent version of list items and documents. |
| LastMajorAndMinor | The most recent major version and the most recent minor version of list items and documents. |
| All | All versions of list items and documents. |

2.3 LookupListMap.xml

This file lists (1) links and lookups to other items that need to be processed when reading the package. The root element is defined as follows:

```
<xs:element name="LookupLists" type="SPLookupLists" />
```

The LookupListMap.xml document contains all lists (1) which are referenced by a lookup field (2) definitions of a list (1) and all list items which are referenced by a lookup fields (2) of another list item in the deployment package (1).

The schema is described in detail in the following sections, but at a high level is structured as follows:

```
<SPLookupLists>  
  <SPLookupList>  
    <SPLookupItems>  
      <SPLookupItem/>  
    </SPLookupItems>  
  </SPLookupList>  
  <SPLookupList>  
    <SPLookupItems>  
      <SPLookupItem/>  
      <SPLookupItem/>  
    </SPLookupItems>  
  </SPLookupList>  
</SPLookupLists>
```

Consider this example:

Your deployment package (1) contains two lists (1): Conferences, which has a lookup field (2) definitions: Location which references list (1) HostCities and Keynotes, which has a lookup field (2) definitions: Speaker which references list (1) **ConferenceAttendees**. Conferences contains a list item for which the field (2) relating to Location, references list item Seattle in **HostCities**. The LookupListMap.xml from a deployment package (1) which contained all of these deployment system objects would look like this:

```
<SPLookupLists>
```

```

<SPLookupList ID="ID of list HostCities"
  Url="URL of list HostCities" Included="true">
  <SPLookupItems>
    <SPLookupItem ID="ID of list item Seattle"
      DocId="DocId of list item Seattle"
      Url="URL of list item Seattle"
      Included="true" />
  </SPLookupItems>
</SPLookupList>
<SPLookupList ID="ID of list ConferenceAttendees"
  Url="URL of ConferenceAttendees"
  Included="true">
  <SPLookupItems />
</SPLookupList>
</SPLookupLists>

```

Because the **Included** attribute is set to **true** on all of these elements, it means that the both the **HostCities** and **ConferenceAttendees** lists (1) and the Seattle list item are included in the deployment package (1).

2.3.1 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.

| Prefix | Namespace URI | Reference |
|--------|-------------------------------------|---|
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1] [XMLSCHEMA2] |
| (none) | urn:deployment-lookuplistmap-schema | |
| core | urn:deployment-lookuplistmap-schema | This specification is using the XML schema defined in [MS-WSSCAML] , but replacing the "http://schemas.microsoft.com/sharepoint/wire" targetNamespace of the schema with "urn:deployment-lookuplistmap-schema". |

2.3.2 Complex Types

2.3.2.1 SPLookupItem Type

Specifies a lookup item which is referenced by a lookup field (2) on a list item in the deployment package (1). Both the **Id** attribute of an element of this type and the **Id** of the containing **SPLookupList** element (section [2.3.2.3](#)) are required to identify the lookup item.

```

<xs:complexType name="SPLookupItem">
  <xs:attribute name="Id" type="xs:int" use="required" />
  <xs:attribute name="DocId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Url" type="xs:string" use="required" />
  <xs:attribute name="Included" type="core:truefalse_Only_Lowercase"

```



```

        use="required" />
</xs:complexType>

```

2.3.2.1.1 Attributes

Id: This is an object reference corresponding to the **IntId** of a list item in the Manifest.xml file as specified in section [2.1.3.1](#) where the **ParentListId** attribute of the list item is equal to the **Id** attribute of this element's parent **SPLookupList** element (section [2.3.2.3](#)).

DocId: An **object reference** corresponding to the **DocId** attribute of a list item as specified in section [2.1.2.45](#). If the list item referenced by the **Id** attribute of this element still exists, then the value **MUST** be the list item identifier of that list item, otherwise this value **MUST** be 00000000-0000-0000-0000-000000000000.

Url: The URL of the referenced lookup item. If the list item referenced by the **Id** attribute of this element still exists, this value **MUST** be the server-relative URL of that list item. Otherwise, this value **MUST** be empty.

Included: Specifies whether or not the referenced lookup item is contained in the deployment package (1). **MUST** be **true** if the list item referenced by the **Id** attribute is contained in the deployment package (1). Otherwise, **MUST** be **false**.

2.3.2.2 SPLookupItems Type

Specifies a collection of **SPLookupItem** elements (section [2.3.2.1](#)) within the deployment manifest.

```

<xs:complexType name="SPLookupItems">
  <xs:sequence>
    <xs:element name="LookupItem" type="SPLookupItem"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

```

2.3.2.2.1 Child Elements

LookupItem: An **SPLookupItem** element.

2.3.2.3 SPLookupList Type

Specifies a list (1) which is referenced by at least one lookup field (2) definition of another list (1) or is the parent list (1) of at least one lookup item which is referenced by at least one lookup field (2) of a list item in the deployment package (1).

```

<xs:complexType name="SPLookupList">
  <xs:sequence>
    <xs:element name="LookupItems" type="SPLookupItems"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>

  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Url" type="xs:string" use="required" />

```

```
<xs:attribute name="Included" type="core:truefalse_Only_Lowercase"
              use="required" />
</xs:complexType>
```

2.3.2.3.1 Attributes

Id: The identifier of the associated list (1). This is an object reference corresponding to the **Id** of a list (1) as specified in section [2.1.2.44](#).

Url: The server-relative URL of the associated list (1) as specified in the documentation for the **Id** attribute of this element. If the list (1) no longer exists, this value MUST be empty.

Included: Specifies whether or not the referenced list (1) is contained in the deployment package (1). MUST be **true** if the list (1) referenced by the **Id** attribute is contained in the deployment package (1). Otherwise, MUST be **false**.

2.3.2.3.2 Child Elements

LookupItems: A collection of **SPLookupItem** elements. MUST contain exactly one element for each list item in the list (1) defined by the **Id** attribute which is referenced by a lookup field (2) of another list item contained in the deployment package (1).

2.3.2.4 SPLookupLists Type

Specifies the collection of **SPLookupList** elements in the deployment package (1).

```
<xs:complexType name="SPLookupLists">
  <xs:sequence>
    <xs:element name="LookupList" type="SPLookupList"
                minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.3.2.4.1 Child Elements

LookupList: A collection of **SPLookupList** elements. MUST contain exactly one element for each lookup list (1) which is referenced by a lookup field (2) definition of another list (1) that is either in the deployment package (1) or which has at least one child list item in the deployment package (1) which references a list item in the lookup list (1).

2.3.3 Attribute Groups

None.

2.3.4 Simple Types

None.

2.4 Requirements.xml

This file lists (1) resources that need to be present to process the contents of the package. The root element is defined as follows:

```
<xs:element name="Requirements" type="SPImportRequirements" />
```

2.4.1 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.

| Prefix | Namespace URI | Reference |
|--------|------------------------------------|--|
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1] [XMLSCHEMA2] |
| (none) | urn:deployment-requirements-schema | |
| core | urn:deployment-requirements-schema | This specification is using the XML schema defined in [MS-WSSCAML] , but replacing the "http://schemas.microsoft.com/sharepoint/wire" targetNamespace of the schema with "urn:deployment-requirements-schema". |

2.4.2 Complex Types

2.4.2.1 SPImportRequirements

Specifies the required objects that MUST already be installed on any content management system to which the deployment package (1) can successfully be imported.

```
<xs:complexType name="SPImportRequirements">  
  <xs:sequence>  
    <xs:element name="Requirement" type="SPRequirement"  
      minOccurs="0" maxOccurs="unbounded" />  
  </xs:sequence>  
</xs:complexType>
```

2.4.2.1.1 Child Elements

Requirement: A required object.

2.4.2.2 SPRequirement

Specifies a required object for a deployment package (1).

```
<xs:complexType name="SPRequirement">
```

```

<xs:attribute name="Type" type="SPRequirementObjectType" />
<xs:attribute name="Id" type="xs:string" use="required" />
<xs:attribute name="Name" type="xs:string" use="required" />
<xs:attribute name="Data" type="xs:string" use="optional" />
</xs:complexType>

```

2.4.2.2.1 Attributes

Type: The type of the object.

Id: The identifier of the object. The exact content and form of this identifier depends on the value of **Type** as described in the following table.

| Value of Type | Meaning of Id |
|-------------------|---|
| FeatureDefinition | MUST be the GUID of the required feature in the UniqueIdentifierWithoutBraces format as defined in [MS-WSSCAML] section 2.1.15. |
| WebTemplate | MUST be the site template identifier of the required site template in the following format: <template name>#<id> where <template name> is the name of the site template, # is a literal number sign, and <id> is the instance number of the site template. The instance number of the site template MUST be ignored by readers. |
| WebPart | MUST be the string identifier of the assembly that defines the Web Part in the following format: <Name of the Web Part assembly>.dll <.NET Framework version> Example: Microsoft.Sharepoint.dll v2.0.50727 |
| Language | MUST be the LCID of the required installed language. |

Name: The name or additional identifying information of the object. The content of this attribute depends on the value of **Type** as follows:

| Value of Type | Contents of Name Attribute |
|-------------------|---|
| FeatureDefinition | MUST be the name of the required feature. |
| WebTemplate | MUST be the LCID of the required installed language for the site template. |
| WebPart | MUST be the Web Part type identifier in the UniqueIdentifierWithoutBraces format as defined in [MS-WSSCAML] section 2.1.15. This attribute is an object reference corresponding to the WebPartTypeId attribute of a WebPart element in the Manifest.xml file as specified in section 2.1.3.2 . The referenced element MUST be in the deployment package (1). |
| Language | MUST be the display name of the required installed language. The name MUST be in the language of the server that created the package. |

Data: Additional data for this requirement. If the **Type** attribute has the "WebTemplate" value, this attribute MUST be present and MUST contain the display name of the required installed language for the site template. This display name MUST appear in the language of the server that created the

deployment package (1). If the **Type** attribute has some value other than "WebTemplate", this attribute MUST NOT be present.

2.4.3 Attribute Groups

None.

2.4.4 Simple Types

2.4.4.1 SPRequirementObjectType

Specifies the type of the object that is required.

```
<xs:simpleType name="SPRequirementObjectType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="FeatureDefinition" />
    <xs:enumeration value="WebTemplate" />
    <xs:enumeration value="WebPart" />
    <xs:enumeration value="Language" />
  </xs:restriction>
</xs:simpleType>
```

The value MUST be one of the values described in the following table.

| Value | Description |
|-------------------|---|
| FeatureDefinition | The required object is a feature. |
| WebTemplate | The required object is a site template. |
| WebPart | The required object is a Web Part. |
| Language | The required object is an installed language. |

2.5 RootObjectMap.xml

This file lists (1) the top level objects in the package. The root element is defined as follows:

```
<xs:element name="RootObjects" type="SPRootObjects" />
```

2.5.1 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.

| Prefix | Namespace URI | Reference |
|--------|----------------------------------|--|
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1] [XMLSCHEMA2] |

| Prefix | Namespace URI | Reference |
|--------|-------------------------------------|---|
| (none) | urn:deployment-rootobjectmap-schema | |
| core | urn:deployment-rootobjectmap-schema | This specification is using the XML schema defined in [MS-WSSCAML] , but replacing the "http://schemas.microsoft.com/sharepoint/wire" targetNamespace of the schema with "urn:deployment-rootobjectmap-schema". |

2.5.2 Complex Types

2.5.2.1 SPRootObject

Specifies a root deployment object contained in the deployment package (1).

```
<xs:complexType name="SPRootObject">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Type" type="SPDeploymentObjectType" use="required" />
  <xs:attribute name="ParentId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="WebUrl" type="xs:string" use="required" />
  <xs:attribute name="Url" type="xs:string" use="required" />
  <xs:attribute name="IsDependency" type="core:truefalse_Only_Lowercase"
    use="required" />
</xs:complexType>
```

2.5.2.1.1 Attributes

Id: An object reference corresponding to the **Id** attribute of the deployment system object, as specified in section [2.1.2.40](#). If the **IsDependency** attribute is false, exactly one deployment system object MUST exist in the deployment package (1) with an **Id** attribute equal to this value and with **ObjectType** attribute equal to one of the values in the following table based on the **Type** attribute of this element:

| SPRootObject.Type attribute value | SPGenericObject.ObjectType attribute value |
|-----------------------------------|--|
| Web | SPWeb |
| ListItem | SPLListItem |
| File | SPFile |

Type: The type of the deployment system object.

ParentId: This is an object reference corresponding to the **Id** attribute of the parent of the deployment system object. This value depends on the **Type** attribute as shown in the following table.

| SPRootObject.Type attribute value | ParentId attribute |
|--|---|
| Web | If the deployment system object to which this element refers is a top-level site, this MUST be an empty GUID. Otherwise this is an object reference corresponding to the Id attribute of a site (2) as specified in section 2.1.2.58 . The referenced element MUST NOT be in the deployment package (1). |
| ListItem | An object reference corresponding to the Id of a list (1) as specified in section 2.1.2.44 . The referenced element MUST NOT be in the deployment package (1). |
| File | An object reference corresponding to the Id of a folder as specified in section 2.1.2.37 . The referenced element MUST NOT be in the deployment package (1). |

WebUrl: If the **Type** attribute is "Web" then this **MUST** be the server-relative URL of the site (2) to which this element refers. Otherwise, this **MUST** be the server-relative URL of the site (2) which contains this deployment system object.

Url: The server-relative URL of the deployment system object to which this element refers.

IsDependency: **MUST** be **false** if any of the following are **true**:

- The parent site (2) of the deployment system object to which this element refers is referenced by a **SPEXportObject** (section [2.2.2.1](#)) element in ExportSettings.xml file.
- Any ancestor site (2) of the deployment system object to which this element refers is referenced by a **SPEXportObject** (section [2.2.2.1](#)) element in ExportSettings.xml file and has **IncludeDescendants** attribute value "All".

Otherwise, the value **MUST** be **true**.

2.5.2.2 SPRootObjects

Specifies the collection of **SPRootObject** (section [2.5.2.1](#)) elements contained in the deployment package (1).

```
<xs:complexType name="SPRootObjects">
  <xs:sequence>
    <xs:element
      name="RootObject" type="SPRootObject"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.5.2.2.1 Child Elements

RootObject: An **SPRootObject** contained in the deployment package (1).

2.5.3 Attribute Groups

None.

2.5.4 Simple Types

2.5.4.1 SPDeploymentObjectType

Specifies the type of a root deployment system object.

```
<xs:simpleType name="SPDeploymentObjectType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Web" />
    <xs:enumeration value="ListItem" />
    <xs:enumeration value="File" />
  </xs:restriction>
</xs:simpleType>
```

The value MUST be one of the values described in the following table.

| Value | Description |
|----------|---------------------|
| Web | A site (2) object. |
| ListItem | A list item object. |
| File | A document object. |

2.6 SystemData.xml

This part of the package specifies version and structure of the package as well as the objects that are a part of the site collection and that are created by the system during the creation of a site collection and before a site template is applied, with the exception of the blank site template.

The root element is defined as follows:

```
<xs:element name="SystemData" type="SPSystemData" />
```

2.6.1 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.

| Prefix | Namespace URI | Reference |
|--------|----------------------------------|--|
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1] [XMLSCHEMA2] |
| (none) | urn:deployment-systemdata-schema | |

| Prefix | Namespace URI | Reference |
|--------|----------------------------------|--|
| core | urn:deployment-systemdata-schema | This specification is using the XML schema defined in [MS-WSSCAML] , but replacing the "http://schemas.microsoft.com/sharepoint/wire" targetNamespace of the schema with "urn:deployment-systemdata-schema". |

2.6.2 Complex Types

2.6.2.1 SPManifestFile

Specifies the name of a single manifest file in the deployment package (1).

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

2.6.2.1.1 Attributes

Name: The name of the manifest file. The manifest file **MUST** be present in the deployment package (1).

2.6.2.2 SPManifestFiles

Specifies the manifest files in the deployment package (1).

```
<xs:complexType name="SPManifestFiles">
  <xs:sequence>
    <xs:element name="ManifestFile" type="SPManifestFile"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.6.2.2.1 Child Elements

ManifestFile: A manifest file created during the **export operation** that lists (1) the contents of the export package. The export operation creates multiple files in case a single manifest file would exceed the implementation-specific maximum size for a single file.

2.6.2.3 SPSchemaVersion

Specifies the schema version of the deployment package (1).

```
<xs:complexType name="SPSchemaVersion">
  <xs:attribute name="Version" type="xs:string" use="required"/>
  <xs:attribute name="Build" type="BuildVersion" use="required" />
  <xs:attribute name="DatabaseVersion" type="xs:nonNegativeInteger"
    use="required" />
  <xs:attribute name="SiteVersion" type="xs:string" use="required" />
  <xs:attribute name="ObjectsProcessed" type="xs:int" />
</xs:complexType>
```

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

2.6.2.3.1 Attributes

Version: The version of the deployment package (1). [<147>](#)

Build: The implementation-specific version of the writer. [<148>](#)

DatabaseVersion: The implementation-specific version of the source of the content from which the export operation was performed. [<149>](#) Readers MUST ignore this value.

SiteVersion: Reserved. MUST be 0.

ObjectsProcessed: Total number of all deployment objects across all manifests. [<150>](#)

2.6.2.4 SPSystemData

Specifies the version and structure of the package as well as the objects that are a part of the site collection and that are created by the system during the creation of a site collection and before a site template is applied, with the exception of the blank site template.

```
<xs:complexType name="SPSystemData">
  <xs:sequence>
    <xs:element name="SchemaVersion" type="SPSchemaVersion"
      minOccurs="1" maxOccurs="1" />
    <xs:element name="ManifestFiles" type="SPManifestFiles"
      minOccurs="1" maxOccurs="1" />
    <xs:element name="SystemObjects" type="SPSystemObjects"
      minOccurs="1" maxOccurs="1" />
    <xs:element name="RootWebOnlyLists" type="SPRootWebOnlyLists"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
</xs:complexType>
```

2.6.2.4.1 Child Elements

SchemaVersion: The schema version of the deployment package (1).

ManifestFiles: The manifest files in the deployment package (1).

SystemObjects: The deployment system objects in the deployment package (1).

RootWebOnlyLists: The exported lists (1) which always belong to top-level site, whether this exported site (2) is top-level or not (for example, Web Part Gallery, Solution Gallery). [<151>](#)

2.6.2.5 SPSystemObjects

Specifies the deployment system objects in the deployment package (1).

```
<xs:complexType name="SPSystemObjects">
  <xs:sequence>
    <xs:element name="SystemObject" type="SPSystemObject"
```

```

        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

```

2.6.2.5.1 Child Elements

SystemObject: A deployment system object.

2.6.2.6 SPSystemObject

Specifies a deployment system object.

```

<xs:complexType name="SPSystemObject">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Type" use="required" >
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Web" />
        <xs:enumeration value="Folder" />
        <xs:enumeration value="List" />
        <xs:enumeration value="ListItem" />
        <xs:enumeration value="File" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Url" type="xs:string" use="required" />
</xs:complexType>

```

2.6.2.6.1 Attributes

Id: The identifier of the deployment system object. This is an object reference corresponding to an object specified by the value of the Type attribute.

Type: The type of deployment system object. MUST be one of the values described in the following table.

| Value | Description |
|----------|---|
| Web | The deployment system object is a site (2). The Id attribute is an object reference corresponding to the Id of a site (2) as specified in section 2.1.2.58 . |
| Folder | The deployment system object is a folder. The Id attribute is an object reference corresponding to the Id of a folder as specified in section 2.1.2.37 . |
| List | The deployment system object is a list (1). The Id attribute is an object reference corresponding to the Id of a list (1) as specified in section 2.1.2.44 . |
| ListItem | The deployment system object is a list item. |

| Value | Description |
|-------|---|
| | The Id attribute is an object reference corresponding to the Id of a list item as specified in section 2.1.3.1 . |
| File | The deployment system object is a file. The Id attribute is an object reference corresponding to the Id of a file as specified in section 2.1.2.35 . |

Url: The server-relative URL of the deployment system object.

2.6.2.7 SPRootWebOnlyLists

Specifies all lists (1) which belong only to the top-level site, for example, User Information List. [<152>](#)

```
<xs:complexType name="SPRootWebOnlyLists">
  <xs:sequence>
    <xs:element name="List" type="SPRootWebOnlyList"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.6.2.7.1 Child Elements

List: Element containing identifier of the list (1) which belongs to the top-level site only.

2.6.2.8 SPRootWebOnlyList

Specifies the identifier of the list (1) which belongs to the top-level site: [<153>](#)

```
<xs:complexType name="SPRootWebOnlyList">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
</xs:complexType>
```

2.6.2.8.1 Attributes

Id: An object reference corresponding to the **Id** of a list (1) as specified in section [2.1.2.44](#).

2.6.3 Attribute Groups

None.

2.6.4 Simple Types

2.6.4.1 BuildVersion

Specifies the version of Microsoft.SharePoint.dll in a pattern of digits and dots (such as "14.0.4730.1000"), to keep track of upgrades.

```

<xs:simpleType name="BuildVersion">
  <xs:restriction base="xs:string">
    <xs:pattern value="\d+\.\d+\.\d+\.\d+" />
  </xs:restriction>
</xs:simpleType>

```

2.7 UserGroup.xml

This file lists (1) all users and groups in the package. The root element is defined as follows:

```

<xs:element name="UserGroupMap" type="DeploymentUserGroupMap" />

```

2.7.1 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.

| Prefix | Namespace URI | Reference |
|--------|------------------------------------|--|
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1] [XMLSCHEMA2] |
| (none) | urn:deployment-usergroupmap-schema | |
| core | urn:deployment-usergroupmap-schema | This specification is using the XML schema defined in [MS-WSSCAML] , but replacing the "http://schemas.microsoft.com/sharepoint/wire" targetNamespace of the schema with "urn:deployment-usergroupmap-schema". |

2.7.2 Complex Types

2.7.2.1 DeploymentUserGroupMap

Specifies all security principals (2) and security groups in the deployment package (1).

```

<xs:complexType name="DeploymentUserGroupMap">
  <xs:sequence>
    <xs:element name="Users" type="DeploymentUsers"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Groups" type="DeploymentGroups"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
</xs:complexType>

```

2.7.2.1.1 Child Elements

Users: The security principals (2).

Groups: The security groups.

2.7.2.2 DeploymentUsers

Specifies a collection of security principals (2).

```
<xs:complexType name="DeploymentUsers">
  <xs:sequence>
    <xs:element name="User" type="DeploymentUser"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.7.2.2.1 Child Elements

User: A single security principal (2).

2.7.2.3 DeploymentUser

Specifies a security principal (2).

```
<xs:complexType name="DeploymentUser">
  <xs:attribute name="Id" type="xs:int" use="required" />
  <xs:attribute name="Name" type="String255NonEmpty" use="required" />
  <xs:attribute name="Login" type="String255NonEmpty" use="required" />
  <xs:attribute name="Email" type="String255" use="optional" />
  <xs:attribute name="IsDomainGroup" type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="IsSiteAdmin" type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="SystemId" type="xs:base64Binary" use="required" />
  <xs:attribute name="IsDeleted" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="MobilePhone" type="xs:string" use="optional" />
  <xs:attribute name="Flags" type="xs:int" use="optional" />
</xs:complexType>
```

2.7.2.3.1 Attributes

Id: The identifier of the security principal (1). This value **MUST** be unique among the **Id** values of all **DeploymentGroup** and **DeploymentUser** elements within the containing **DeploymentUserGroupMap** element.

Name: The display name of the security principal (1).

Login: The login name of the security principal (1).

Email: The e-mail address of the security principal (1).

IsDomainGroup: Specifies whether the security principal (1) represents an external group.

IsSiteAdmin: Specifies whether the security principal (1) is a site collection administrator. MUST be ignored by readers.

SystemId: The SID of the security principal (1).

IsDeleted: Specifies whether the security principal (1) is marked as deleted.

MobilePhone: Mobile phone number of the security principal (1).<154>

Flags: Authentication-related flags of the security principal (1), as defined in [\[MS-WSSFO2\]](#) section 2.2.2.11.<155>

2.7.2.4 DeploymentGroups

Specifies a collection of security groups.

```
<xs:complexType name="DeploymentGroups">
  <xs:sequence>
    <xs:element name="Group" type="DeploymentGroup"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

2.7.2.4.1 Child Elements

Group: A single security group.

2.7.2.5 DeploymentGroup

Specifies a security group.

```
<xs:complexType name="DeploymentGroup">
  <xs:sequence>
    <xs:element name="Member" type="DeploymentGroupMember"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
  <xs:attribute name="Id" type="xs:int" use="required" />
  <xs:attribute name="Name" type="String255NonEmpty" use="required" />
  <xs:attribute name="Owner" type="xs:int" use="required" />
  <xs:attribute name="OwnerIsUser" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="Description" type="String512" use="optional" />
  <xs:attribute name="OnlyAllowMembersViewMembership"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AllowMembersEditMembership"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AllowRequestToJoinLeave"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AutoAcceptRequestToJoinLeave"
    type="core:truefalse_Only_Lowercase" />
```

```

        use="optional" default="false" />
    <xs:attribute name="RequestToJoinLeaveEmailSetting"
        type="String255" use="optional" />
</xs:complexType>

```

2.7.2.5.1 Attributes

Id: The identifier of the security group. This value MUST be unique among the **Id** values of all **DeploymentGroup** and **DeploymentUser** elements within the containing **DeploymentUserGroupMap** element.

Name: The name of the security group.

Owner: The identifier of the security group or security principal (1) that is of the owner of the security group. MUST either be equal to 1073741823 (the **Id** of the built-in System Account) or match the **Id** value of exactly one element of type **DeploymentGroup** or **DeploymentUser** within the containing **DeploymentUserGroupMap** element.

OwnerIsUser: Specifies whether the owner of the security group is a security principal (1). A value of **true** denotes that the owner is a security principal (1). A value of **false** denotes that the owner is a security group.

Description: The description of the security group.

OnlyAllowMembersViewMembership: Specifies whether only members of the security group can view the list (1) of members. A value of **true** denotes that only members of the group can view the list (1) of members. A value of **false** denotes that all users can view the list (1) of members.

AllowMembersEditMembership: Specifies whether all members of the security group can edit the list (1) of members. A value of **true** denotes that all group members can edit the list (1) of members. A value of **false** denotes that only the owner of the security group can edit the list (1) of members.

AllowRequestToJoinLeave: Specifies whether to allow requests to join or leave the security group.

AutoAcceptRequestToJoinLeave: Specifies whether to automatically accept requests to join or leave the security group.

RequestToJoinLeaveEmailSetting: The e-mail address to which requests to join or leave the security group will be sent.

2.7.2.5.2 Child Elements

Member: A single member of the security group.

2.7.2.6 DeploymentGroupMember

Specifies a security principal (1) who is a member of a security group.

```

<xs:complexType name="DeploymentGroupMember">
    <xs:attribute name="UserId" type="xs:int" use="required" />
</xs:complexType>

```


2.7.2.6.1 Attributes

UserId: The identifier of the security principal (1). MUST either be equal to 1073741823 (the **Id** of the built-in System Account) or match the **Id** value of exactly one element of type **DeploymentUser** within the containing **DeploymentUserGroupMap** element.

2.7.3 Attribute Groups

None.

2.7.4 Simple Types

None.

2.8 ViewFormsList.xml

This file lists (1) all List View Web Parts and List Form Web Parts in the deployment package (1). The root element is defined as follows:

```
<xs:element name="ViewFormsList" type="SPViewFormsList" />
```

2.8.1 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.

| Prefix | Namespace URI | Reference |
|--------|------------------------------------|--|
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA1] [XMLSCHEMA2] |
| (none) | urn:deployment-viewformlist-schema | |
| core | urn:deployment-viewformlist-schema | This specification is using the XML schema defined in [MS-WSSCAML] , but replacing the "http://schemas.microsoft.com/sharepoint/wire" targetNamespace of the schema with "urn:deployment-viewformlist-schema". |

2.8.2 Complex Types

2.8.2.1 SPViewForm

Specifies the identifier of a List View Web Part or List Form Web Part in the deployment package (1).

```
<xs:complexType name="SPViewForm">  
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"/>
```

```

        use="required" />
<xs:attribute name="Type" use="required" >
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="View" />
      <xs:enumeration value="Forms" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

2.8.2.1.1 Attributes

Id: The identifier of the List View Web Part or List Form Web Part. This is an object reference corresponding to the **Name** attribute of either a **View** element of type **SPView** (specified in section [2.1.2.56](#)) or **Form** element of type **SPForm** (specified in section [2.1.2.38](#)) in the Manifest.xml file. The value of the **Type** attribute determines whether this is a reference to a **View** or **Form** element. The referenced element MUST be in the deployment package (1).

Type: The type of object being specified. The value MUST be one of the values described in the following table.

| Value | Description |
|-------|---|
| View | The Id attribute identifies a View element. |
| Forms | The Id attribute identifies a Form element. |

2.8.2.2 SPViewFormsList

Specifies the identifiers of a collection of List View Web Parts and List Form Web Parts in the deployment package (1).

```

<xs:complexType name="SPViewFormsList">
  <xs:sequence>
    <xs:element name="ViewForm" type="SPViewForm"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

```

2.8.2.2.1 Child Elements

ViewForm: The identifier of a single List View Web Part or List Form Web Part.

2.8.3 Attribute Groups

None.

2.8.4 Simple Types

None.

3 Structure Examples

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The XSD in this specification provides a base description of the file format. The text that introduces the XSD specifies additional restrictions that reflect protocol behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **present**, and **not null**.

3.1 Manifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<SPObjects xmlns="urn:deployment-manifest-schema">
  <SPObject Id="9d2e4e60-d282-44ea-b3ed-7eceb77fea9b" ObjectType="SPSite" ParentId=""
ParentWebId="">
    <Site Id="9d2e4e60-d282-44ea-b3ed-7eceb77fea9b" />
  </SPObject>
  <SPObject Id="37bcb4ae-b822-4a2b-9cac-455c7df77bb6" ObjectType="SPWeb" ParentId=""
ParentWebId="37bcb4ae-b822-4a2b-9cac-455c7df77bb6" ParentWebUrl="/" Url="/">
    <Web Id="37bcb4ae-b822-4a2b-9cac-455c7df77bb6" Name="" Description="" Locale="English
(United States)" CurrencyLocaleId="1033" Language="1033" TimeZoneId="13" Time24="false"
CalendarType="1" AdjustHijriDays="0" Collation="25" RegionalSettingsLocaleId="1033"
AlternateCalendarType="0" ShowWeeks="false" FirstWeekOfYear="0" WorkDays="62"
WorkDayStartHour="480" WorkDayEndHour="1020" FirstDayOfWeek="0" Configuration="1"
PresenceEnabled="true" SyndicationEnabled="true" QuickLaunchEnabled="true"
TreeViewEnabled="false" ParserEnabled="true" Provisioned="true" ParentId="00000000-0000-0000-
0000-000000000000" IsRootWeb="true" Title="Sample Site" ServerRelativeUrl="/"
WebTemplate="STS" AlternateCssUrl="" CustomizedCssFiles="" CustomJSUrl=""
IncludeSupportingFolders="false" RootFolderId="190235fb-8a19-47da-91c0-fed2ee2c2783"
SystemCatalogsIncluded="true" ThemeComposite="" SecurityProvider="00000000-0000-0000-0000-
000000000000" MasterUrl="/_catalogs/masterpage/default.master"
CustomMasterUrl="/_catalogs/masterpage/default.master" Created="2008-02-14T05:14:01Z"
Author="1" SiteLogoDescription="" HasUniqueRoleDefinitions="true"
HasUniqueRoleAssignments="true" RequestAccessEmail="" ExcludeFromOfflineClient="false"
NoCrawl="false" CacheAllSchema="false" UIVersionConfigurationEnabled="false"
ASPXPageIndexMode="Automatic" >
      <Properties>
        <Property Name="vti_associatemembergroup" Type="String" Access="ReadWrite" Value="5"
/>
        <Property Name="vti_extenderversion" Type="String" Access="ReadWrite"
Value="12.0.0.6217" />
        <Property Name="vti_associatevisitorgroup" Type="String" Access="ReadWrite" Value="4"
/>
        <Property Name="vti_associategroups" Type="String" Access="ReadWrite" Value="5;4;3"
/>
        <Property Name="vti_createdassociategroups" Type="String" Access="ReadWrite"
Value="3;4;5" />
        <Property Name="vti_approvallevels" Type="String" Access="ReadWrite" Value="Approved
Rejected Pending\ Review" />
        <Property Name="vti_categories" Type="String" Access="ReadWrite" Value="Business
Competition Expense\ Report Goals/Objectives Ideas In\ Process Miscellaneous Planning
Schedule Travel VIP Waiting" />
        <Property Name="vti_associateownergroup" Type="String" Access="ReadWrite" Value="3"
/>
        <Property Name="vti_defaultlanguage" Type="String" Access="ReadWrite" Value="en-us"
/>
      </Properties>
    </EventReceivers />
  </Web>
</SPObject>
```

```

    <SPObject Id="190235fb-8a19-47da-91c0-fed2ee2c2783" ObjectType="SPFolder" ParentId=""
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      455c7df77bb6" ParentWebUrl="/" TimeCreated="2008-02-13T21:14:01" TimeLastModified="2008-02-
      13T21:14:01" />
    </SPObject>
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    8a19-47da-91c0-fed2ee2c2783" ParentWebId="37bcb4ae-b822-4a2b-9cac-455c7df77bb6"
    ParentWebUrl="/" Url="/default.aspx">
      <File Url="default.aspx" Id="647933ce-d7cb-4841-a6b8-ffbea30adf15" ParentWebId="37bcb4ae-
      b822-4a2b-9cac-455c7df77bb6" ParentWebUrl="/" Name="default.aspx" ParentId="190235fb-8a19-
      47da-91c0-fed2ee2c2783" TimeCreated="2008-02-13T21:14:05" TimeLastModified="2008-02-
      13T21:14:05" Version="1.0" IsGhosted="true" SetupPath="SiteTemplates\STS\default.aspx"
      SetupPathVersion="3" SetupPathUser="1073741823" FileValue="00000014.dat">
        <WebParts>
          <WebPart Name="8e21461a-5022-4435-b11c-21f2dac4e554"
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          21lcGFnZS5naWYPAWgAXAAD//8qTWljcm9zb2Z0IFdpbmRvd3MgU2hhcmVQb2ludCBTZXJ2aWNlcyBMB2dvDw8="
          PerUserProperties="AQUAAAACKgBJACKAAz4AAAIqAEoAKQADPQAAQAAQAKQAD//8KU2l0ZSBjWFnZQ8BUQAPAAANEEA
          8P" Level="major" WebPartZoneID="Right" WebPartTypeId="ce9aa113-48cf-ddee-0c03-597445e5b7ab"
          IsIncluded="true" WebPartOrder="1" FrameState="0" />
        </WebParts>
        <Links>
          <Link TargetId="9d866ed0-b230-4648-b428-273972f4f3f4"
          TargetUrl="/_layouts/images/homepage.gif" IsDirty="false" WebPartId="8e21461a-5022-4435-b11c-
          21f2dac4e554" LinkNumber="0" Type="90" Security="85" Dynamic="76" ServerRel="true" Level="1"
          Search="" />
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    ParentWebUrl="/" Url="/Lists/My List/AllItems.aspx">
      <File Url="Lists/My List/AllItems.aspx" Id="4fb407c5-fe93-44df-98c9-768c6fcec462"
      ParentWebId="37bcb4ae-b822-4a2b-9cac-455c7df77bb6" ParentWebUrl="/" Name="AllItems.aspx"
      ListId="aa635886-78b0-4bc6-b8cd-4aff93bd1720" ParentId="b042a0c0-3d8e-4056-9560-498eb52878a5"
      TimeCreated="2008-02-13T21:16:21" TimeLastModified="2008-02-13T21:16:21" Version="1.0"
      IsGhosted="true" SetupPath="pages\viewpage.aspx" SetupPathVersion="3"
      SetupPathUser="1073741823" FileValue="00000015.dat">
        <WebParts>
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          ModerationType="" Personal="false" OrderedView="false" ListId="aa635886-78b0-4bc6-b8cd-
          4aff93bd1720" Version="1" DisplayName="All Items" BaseViewID="1" Level="major"
          WebPartZoneID="Main" WebPartTypeId="2242cce6-491a-657a-c8ee-b10a2a993eda" IsIncluded="true"
          WebPartOrder="1" Type="0" FrameState="0" />
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    455c7df77bb6" ParentWebUrl="/" Url="/">
      <FieldTemplate Id="c042a256-787d-4a6f-8a8a-cf6ab767f12d" ParentWebId="37bcb4ae-b822-4a2b-
      9cac-455c7df77bb6" Scope="/" Name="ContentType" Group="_Hidden" Description="">
        <Field ID="{c042a256-787d-4a6f-8a8a-cf6ab767f12d}" Name="ContentType"
        SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ContentType"
        Group="_Hidden" RowOrdinal="0" Type="Text" DisplayName="Content Type" ReadOnly="TRUE"
        Sealed="TRUE" ColName="tp_ContentType" PITarget="MicrosoftWindowsSharePointServices"
        PIAttribute="ContentTypeID" />
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    </SPObject>

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    455c7df77bb6" ParentWebUrl="/" Url="/">
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    Name="$Resources:Event" Group="_Hidden" Description="$Resources:Event_Desc"
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    4a8e-8ea5-26ea7fc1d162}" Version="1">
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    ShowInNewForm="TRUE" ShowInEditForm="TRUE" />
          <FieldRef ID="{288f5f32-8462-4175-8f09-dd7ba29359a9}" Name="Location" />
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    DisplayName="$Resources:core,Start_Time;" Required="TRUE" Format="DateTime" />
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    DisplayName="$Resources:core,End_Time;" Required="TRUE" Format="DateTime" />
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          <FieldRef ID="{881eac4a-55a5-48b6-a28e-8329d7486120}" Name="Workspace" />
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    NamespaceURI="http://schemas.microsoft.com/sharepoint/v3/contenttype/forms">PEZvcmlUZUW1wbGF0Z
    XMgeG1sbmN9Imh0dHA6Ly9zY2h1bWZfLm1pY3Jvc29mdC5jb20vc2hhcmVwb2ludC92My9jb250ZW50dHlwZS9mb3Jtcy
    I+PERpc3BsYXk+TG1zdEZvcv08L0Rpc3BsYXk+PEVkaXQ+TGlzdEZvcv08L0VkaXQ+PE5ldz5MaXN0Rm9ybTwwTmV3Pjw
    vRm9ybVRlbXBsYXRlc34=</XmlDocument>
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    </SPObject>
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    ParentWebUrl="/" Url="/Lists/My List">
      <List Id="aa635886-78b0-4bc6-b8cd-4aff93bd1720" RootFolderUrl="/Lists/My List"
    ParentWebId="37bc4ae-b822-4a2b-9cac-455c7df77bb6" ParentWebUrl="/" RootFolderId="b042a0c0-
    3d8e-4056-9560-498eb52878a5" Title="My List" Description="" Direction="none"
    BaseType="GenericList" ImageUrl="/_layouts/images/itgen.gif" BaseTemplate="GenericList"
    TemplateFeatureId="00bfea71-de22-43b2-a848-c05709900100" Flags="536875008"
    AllowDeletion="true" AllowMultiResponses="false" EnableAttachments="true"
    EnableModeration="false" EnableVersioning="false" EnableMinorVersions="false"
    RequestAccessEnabled="true" DraftVersionVisibility="Reader" ForceCheckout="false"
    ExcludeFromTemplate="false" Hidden="false" MultipleDataList="false"
    EnableContentTypes="false" Ordered="false" ShowUser="true" ReadSecurity="1" WriteSecurity="1"
    Version="2" Created="2008-02-13T21:16:21" Author="1073741823"
    EnableDeployWithDependentList="true" EnableFolderCreation="false"
    DefaultItemOpen="PreferClient" OnQuickLaunch="true" EnableAssignToEmail="false"
    EnableSyndication="true" IrmEnabled="false" IrmExpire="false" IrmReject="false"
    NoCrawl="false">
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ContentTypeId"
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StaticName="Title" FromBaseType="TRUE" ColName="nvarchar1"/>
    <Field ID="{34ad21eb-75bd-4544-8c73-0e08330291fe}" ReadOnly="TRUE" Type="Note"
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CanToggleHidden="TRUE" Filterable="FALSE" Sortable="FALSE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_ModerationComments"
FromBaseType="TRUE" ColName="ntext1"/>
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="File_x0020_Type"
FromBaseType="TRUE" ColName="nvarchar2"/>
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ID" FromBaseType="TRUE"/>
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ContentType"
ColName="tp_ContentType" Group="_Hidden" PITarget="MicrosoftWindowsSharePointServices"
PIAttribute="ContentTypeID" FromBaseType="TRUE"/>
    <Field ID="{28cf69c5-fa48-462a-b5cd-27b6f9d2bd5f}" ColName="tp_Modified"
RowOrdinal="0" ReadOnly="TRUE" Type="DateTime" Name="Modified" DisplayName="Modified"
StorageTZ="TRUE" SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Modified"
FromBaseType="TRUE"/>
    <Field ID="{8c06beca-0777-48f7-91c7-6da68bc07b69}" ColName="tp_Created"
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StorageTZ="TRUE" SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Created"
FromBaseType="TRUE"/>
    <Field ID="{1df5e554-ec7e-46a6-901d-d85a3881cb18}" ColName="tp_Author" RowOrdinal="0"
ReadOnly="TRUE" Type="User" List="UserInfo" Name="Author" DisplayName="Created By"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Author"
FromBaseType="TRUE"/>
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Editor"
FromBaseType="TRUE"/>
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_HasCopyDestinations"
FromBaseType="TRUE"/>
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DisplaceOnUpgrade="TRUE" DisplayName="Copy Source"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_CopySource"
FromBaseType="TRUE"/>
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Name="owshiddenversion" DisplayName="owshiddenversion"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="owshiddenversion"
FromBaseType="TRUE"/>
    <Field ID="{f1e020bc-ba26-443f-bf2f-b68715017bbc}" ColName="tp_WorkflowVersion"
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="WorkflowVersion"
FromBaseType="TRUE"/>
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Status" Hidden="TRUE" CanToggleHidden="TRUE" Required="FALSE"
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FromBaseType="TRUE">
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    <CHOICE>1;#Rejected</CHOICE>
    <CHOICE>2;#Pending</CHOICE>
    <CHOICE>3;#Draft</CHOICE>
    <CHOICE>4;#Scheduled</CHOICE>
  </CHOICES>
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</Field>
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Hidden="TRUE" Type="Integer" Min="0" Max="99991231" Filterable="TRUE" Sortable="TRUE"
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  <Field ID="{de8beacf-5505-47cd-80a6-aa44e7ffe2f4}" ColName="tp_WorkflowInstanceID"
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DisplaceOnUpgrade="TRUE" DisplayName="Workflow Instance ID"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="WorkflowInstanceID"
FromBaseType="TRUE"/>
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List="Docs" FieldRef="ID" ShowField="FullUrl" JoinColName="DoclibRowId" JoinRowOrdinal="0"
JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="FileRef"
FromBaseType="TRUE"/>
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List="Docs" FieldRef="ID" ShowField="DirName" JoinColName="DoclibRowId" JoinRowOrdinal="0"
JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="FileDirRef" FromBaseType="TRUE"/>
  <Field ID="{173f76c8-aebd-446a-9bc9-769a2bd2c18f}" Name="Last_x0020_Modified"
DisplaceOnUpgrade="TRUE" ReadOnly="TRUE" Hidden="TRUE" DisplayName="Modified" Type="Lookup"
List="Docs" FieldRef="ID" ShowField="TimeLastModified" Format="TRUE"
JoinColName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Last_x0020_Modified"
FromBaseType="TRUE"/>
  <Field ID="{998b5cff-4a35-47a7-92f3-3914aa6aa4a2}" Name="Created_x0020_Date"
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List="Docs" FieldRef="ID" ShowField="TimeCreated" Format="TRUE" JoinColName="DoclibRowId"
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    DisplayName="Item Type" List="Docs" FieldRef="ID" ShowField="FSType"
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    FromBaseType="TRUE"/>
    <Field ID="{ba3c27ee-4791-4867-8821-ff99000bac98}" Name="PermMask"
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    ShowInFileDlg="FALSE" Type="Computed" DisplayName="Effective Permissions Mask"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="PermMask"
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    <FieldRefs>
    <FieldRef Name="ID"/>
    </FieldRefs>
    <DisplayPattern>
    <CurrentRights/>
    </DisplayPattern>
    </Field>
    <Field ID="{8553196d-ec8d-4564-9861-3dbe931050c8}" Hidden="TRUE"
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    DisplaceOnUpgrade="TRUE" DisplayName="Name" AuthoringInfo="(for use in forms)" List="Docs"
    FieldRef="ID" ShowField="LeafName" JoinColName="DoclibRowId" JoinRowOrdinal="0"
    JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
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    <Field ID="{4b7403de-8d94-43e8-9f0f-137a3e298126}" Name="UniqueId"
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    DisplayName="Unique Id" List="Docs" FieldRef="ID" ShowField="UniqueId"
    JoinColName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="UniqueId"
    FromBaseType="TRUE"/>
    <Field ID="{c5c4b81c-f1d9-4b43-a6a2-090df32ebb68}" Name="ProgId"
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    DisplayName="ProgId" List="Docs" FieldRef="ID" ShowField="ProgId" JoinColName="DoclibRowId"
    JoinRowOrdinal="0" JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
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    <Field ID="{d4dd2420-b270-4735-93b5-92b713d0944d}" Name="ScopeId"
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    DisplayName="ScopeId" List="Docs" FieldRef="ID" ShowField="ScopeId" JoinColName="DoclibRowId"
    JoinRowOrdinal="0" JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
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    Type="Computed" Name="ServerUrl" DisplaceOnUpgrade="TRUE" DisplayName="Server Relative URL"
    Filterable="FALSE" RenderXMLUsingPattern="TRUE"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ServerUrl"
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    <FieldRefs>
    <FieldRef Name="FileRef"/>
    </FieldRefs>
    <DisplayPattern>
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    </DisplayPattern>
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    URL" Filterable="FALSE" RenderXMLUsingPattern="TRUE"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="EncodedAbsUrl"
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    <FieldRefs>
    <FieldRef Name="FileRef"/>
    </FieldRefs>
    <DisplayPattern>

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    <HTML>/</HTML>
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  </DisplayPattern>
</Field>
  <Field ID="{687c7f94-686a-42d3-9b67-2782eac4b4f8}" Name="MetaInfo"
  DisplaceOnUpgrade="TRUE" Hidden="TRUE" ShowInFileDialog="FALSE" Type="Lookup"
  DisplayName="Property Bag" List="Docs" FieldRef="ID" ShowField="MetaInfo"
  JoinColName="DoclibRowId" JoinType="INNER"
  SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="MetaInfo"
  FromBaseType="TRUE"/>
  <Field ID="{43bdd51b-3c5b-4e78-90a8-fb2087f71e70}" ColName="tp_Level" RowOrdinal="0"
  ReadOnly="TRUE" Type="Integer" Name="_Level" DisplaceOnUpgrade="TRUE" DisplayName="Level"
  Hidden="TRUE" Required="FALSE" SourceID="http://schemas.microsoft.com/sharepoint/v3"
  StaticName="_Level" FromBaseType="TRUE"/>
  <Field ID="{c101c3e7-122d-4d4d-bc34-58e94a38c816}" ColName="tp_IsCurrentVersion"
  DisplaceOnUpgrade="TRUE" RowOrdinal="0" ReadOnly="TRUE" Type="Boolean"
  Name="_IsCurrentVersion" DisplayName="Is Current Version" Hidden="TRUE" Required="FALSE"
  SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_IsCurrentVersion"
  FromBaseType="TRUE"/>
</Fields>
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  <ContentTypeRef ID="0x0100DA11EF49E5DB3D47AF67ACD91FB1C789">
    <Folder TargetName="Item"/>
  </ContentTypeRef>
  <ContentTypeRef ID="0x012000A49962F98A18CB448E7BD23E7C9B015F"/>
  <ContentType ID="0x01"/>
  <ContentType ID="0x0120"/>
</ContentTypes>
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  Type="RECURRENCE" Hidden="false" Threaded="false" FPModified="false" ReadOnly="false"
  RecurrenceRowset="false" ModerationType="false" Personal="false" OrderedView="false"
  MobileView="false" MobileDefaultView="false" DefaultViewForContentType="false"
  HackLockWeb="false" FailIfEmpty="false" FreeForm="false" FileDialog="false"
  AggregateView="false" IncludeRootFolder="false" IncludeVersions="false" DisplayName="All
  Items" Url="/Lists/My List/AllItems.aspx" FileId="4fb407c5-fe93-44df-98c9-768c6fcec462"
  BaseViewID="1" WebPartZoneID="Main" IsIncluded="true" WebPartOrder="1" FrameState="0" />
</Views>
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  List/DispForm.aspx" Flags="1048576" FileId="3bf8d241-3efe-4274-8143-6002c24c74ff" />
  <Form Name="6513447c-1f6c-4cfb-86fd-1dd585029387" Type="EditForm" Url="/Lists/My
  List/EditForm.aspx" Flags="1048576" FileId="aae80bad-84ed-4c75-bd40-c6a54115a22c" />
  <Form Name="af26c07a-2f85-4343-a4e3-7e1b29adf2fa" Type="NewForm" Url="/Lists/My
  List/NewForm.aspx" Flags="1048576" FileId="9b0ae6fc-3ee9-4042-968e-4ccfb6d806f2" />
</Forms>
</List>
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  455c7df77bb6" ParentWebUrl="/" Url="/My Document Library">
  <DocumentLibrary DocumentTemplateUrl="/My Document Library/Forms/template.doc"
  IsCatalog="false" Id="93a3afb3-c9bc-40ae-aa4a-a4a7f050dc45" RootFolderUrl="/My Document
  Library" ParentWebId="37bcb4ae-b822-4a2b-9cac-455c7df77bb6" ParentWebUrl="/"
  RootFolderId="abb0b0b6-5f6a-4d63-9fc1-510b57ale009" Title="My Document Library"
  Description="" Direction="none" BaseType="DocumentLibrary"
  ImageUrl="/_layouts/images/itdl.gif" BaseTemplate="DocumentLibrary"
  TemplateFeatureId="00bfea71-e717-4e80-aal7-d0c71b360101" DocumentTemplateId="62e951af-28fb-
  4e97-a87a-beea78fbb4ab" Flags="75501576" AllowDeletion="true" AllowMultiResponses="false"
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```

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ExcludeFromTemplate="false" Hidden="false" MultipleDataList="false"
EnableContentTypes="false" Ordered="false" ShowUser="true" ReadSecurity="1" WriteSecurity="1"
Version="3" Created="2008-02-13T21:16:06" Author="1073741823"
EnableDeployWithDependentList="true" EnableFolderCreation="true"
DefaultItemOpen="PreferClient" OnQuickLaunch="true" EnableAssignToEmail="false"
EnableSyndication="true" IrmEnabled="false" IrmExpire="false" IrmReject="false"
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ContentTypeId"
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CanToggleHidden="TRUE" Filterable="FALSE" Sortable="FALSE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_ModerationComments"
FromBaseType="TRUE" ColName="ntext1"/>
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ShowInVersionHistory="FALSE" Type="File" Name="FileLeafRef" DisplayName="Name"
AuthoringInfo="(for use in forms)" List="Docs" FieldRef="ID" ShowField="LeafName"
JoinColName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER" Required="TRUE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="FileLeafRef"
FromBaseType="TRUE"/>
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SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Modified_x0020_By"
FromBaseType="TRUE" ColName="nvarchar1"/>
    <Field ID="{4dd7e525-8d6b-4cb4-9d3e-44ee25f973eb}" ReadOnly="TRUE" Hidden="TRUE"
Type="Text" Name="Created_x0020_By" DisplayName="Document Created By"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Created_x0020_By"
FromBaseType="TRUE" ColName="nvarchar2"/>
    <Field ID="{39360f11-34cf-4356-9945-25c44e68dade}" ReadOnly="TRUE" Hidden="TRUE"
Type="Text" Name="File_x0020_Type" DisplayName="File Type"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="File_x0020_Type"
FromBaseType="TRUE" ColName="nvarchar3"/>
    <Field ID="{c63a459d-54ba-4ab7-933a-dcf1c6fadec2}" Name="_SourceUrl" Hidden="TRUE"
ShowInFileDlg="FALSE" Type="Text" DisplayName="Source Url"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_SourceUrl"
FromBaseType="TRUE" ColName="nvarchar5"/>
    <Field ID="{034998e9-bf1c-4288-bbbd-00eacfc64410}" Name="_SharedFileIndex"
Hidden="TRUE" ShowInFileDlg="FALSE" Type="Text" DisplayName="Shared File Index"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_SharedFileIndex"
FromBaseType="TRUE" ColName="nvarchar6"/>
    <Field ID="{fa564e0f-0c70-4ab9-b863-0177e6ddd247}" Type="Text" Name="Title"
ShowInNewForm="FALSE" ShowInFileDlg="FALSE" DisplayName="Title" Sealed="TRUE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Title"
ColName="nvarchar7"/>
    <Field ID="{4b1bf6c6-4f39-45ac-acd5-16fe7a214e5e}" Type="Text" Name="TemplateUrl"
DisplaceOnUpgrade="TRUE" DisplayName="Template Link" XName="TemplateUrl" Filterable="TRUE"
Sortable="TRUE" Hidden="TRUE" FromBaseType="TRUE" PITarget="mso-infoPathSolution"
PIAttribute="href" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="TemplateUrl" ColName="nvarchar8"/>
    <Field ID="{cd1ecb9f-dd4e-4f29-ab9e-e9ff40048d64}" Type="Text" Name="xd_ProgID"
DisplaceOnUpgrade="TRUE" DisplayName="Html File Link" XName="ProgID" Filterable="TRUE"
Sortable="TRUE" Hidden="TRUE" FromBaseType="TRUE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="xd_ProgID"
ColName="nvarchar9"/>
    <Field ID="{fbf29b2d-cae5-49aa-8e0a-29955b540122}" Type="Boolean" Group="_Hidden"
Name="xd_Signature" DisplaceOnUpgrade="TRUE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="xd_Signature"
DisplayName="Is Signed" XName="{FBF29B2D-CAE5-49aa-8E0A-29955B540122}" Filterable="TRUE"
Sortable="TRUE" Sealed="TRUE" Hidden="TRUE" FromBaseType="TRUE" ReadOnly="TRUE"
ColName="bit1"/>

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    StaticName="Hyperlink" Name="Hyperlink" ColName="nvarchar10" RowOrdinal="0"
    ColName2="nvarchar11" RowOrdinal2="0"/>
    <Field Type="Lookup" DisplayName="My Lookup Column" Required="FALSE" List="{aa635886-
    78b0-4bc6-b8cd-4aff93bd1720}" ShowField="Title" UnlimitedLengthInDocumentLibrary="FALSE"
    ID="{b80e0038-ce98-4f9f-a288-27e68da96899}" SourceID="{93a3afb3-c9bc-40ae-aa4a-a4a7f050dc45}"
    StaticName="My_x0020_Lookup_x0020_Column" Name="My_x0020_Lookup_x0020_Column" ColName="int1"
    RowOrdinal="0"/>
    <Field ID="{1d22ea11-1e32-424e-89ab-9fedbadb6ce1}" ColName="tp_ID" RowOrdinal="0"
    ReadOnly="TRUE" Type="Counter" Name="ID" DisplayName="ID"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ID" FromBaseType="TRUE"/>
    <Field ID="{c042a256-787d-4a6f-8a8a-cf6ab767f12d}" RowOrdinal="0" Type="Text"
    DisplayName="Content Type" ReadOnly="TRUE" Name="ContentType" DisplaceOnUpgrade="TRUE"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ContentType"
    ColName="tp_ContentType" Group="_Hidden" PITarget="MicrosoftWindowsSharePointServices"
    PIAttribute="ContentTypeID" FromBaseType="TRUE"/>
    <Field ID="{8c06beca-0777-48f7-91c7-6da68bc07b69}" ColName="tp_Created"
    RowOrdinal="0" ReadOnly="TRUE" Type="DateTime" Name="Created" DisplayName="Created"
    StorageTZ="TRUE" SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Created"
    FromBaseType="TRUE"/>
    <Field ID="{1df5e554-ec7e-46a6-901d-d85a3881cb18}" ColName="tp_Author" RowOrdinal="0"
    ReadOnly="TRUE" Type="User" List="UserInfo" Name="Author" DisplayName="Created By"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Author"
    FromBaseType="TRUE"/>
    <Field ID="{28cf69c5-fa48-462a-b5cd-27b6f9d2bd5f}" ColName="tp_Modified"
    RowOrdinal="0" ReadOnly="TRUE" Type="DateTime" Name="Modified" DisplayName="Modified"
    StorageTZ="TRUE" SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Modified"
    FromBaseType="TRUE"/>
    <Field ID="{d31655d1-1d5b-4511-95a1-7a09e9b75bf2}" ColName="tp_Editor" RowOrdinal="0"
    ReadOnly="TRUE" Type="User" List="UserInfo" Name="Editor" DisplayName="Modified By"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Editor"
    FromBaseType="TRUE"/>
    <Field ID="{26d0756c-986a-48a7-af35-bf18ab85ff4a}" ColName="tp_HasCopyDestinations"
    RowOrdinal="0" Sealed="TRUE" Hidden="TRUE" ReadOnly="TRUE" Type="Boolean"
    Name="_HasCopyDestinations" DisplaceOnUpgrade="TRUE" DisplayName="Has Copy Destinations"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_HasCopyDestinations"
    FromBaseType="TRUE"/>
    <Field ID="{6b4e226d-3d88-4a36-808d-a129bf52bccf}" ColName="tp_CopySource"
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    DisplaceOnUpgrade="TRUE" DisplayName="Copy Source"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_CopySource"
    FromBaseType="TRUE"/>
    <Field ID="{fdc3b2ed-5bf2-4835-a4bc-b885f3396a61}" ColName="tp_ModerationStatus"
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    Status" Hidden="TRUE" CanToggleHidden="TRUE" Required="FALSE"
    SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_ModerationStatus"
    FromBaseType="TRUE">
    <CHOICES>
    <CHOICE>0;#Approved</CHOICE>
    <CHOICE>1;#Rejected</CHOICE>
    <CHOICE>2;#Pending</CHOICE>
    <CHOICE>3;#Draft</CHOICE>
    <CHOICE>4;#Scheduled</CHOICE>
    </CHOICES>
    <Default>0</Default>
  </Field>
  <Field ID="{94f89715-e097-4e8b-ba79-ea02aa8b7adb}" Name="FileRef" ReadOnly="TRUE"
  Hidden="TRUE" Type="Lookup" DisplayName="URL Path" List="Docs" FieldRef="ID"
  ShowField="FullUrl" JoinColName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER"
  SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="FileRef"
  FromBaseType="TRUE"/>

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Hidden="TRUE" Type="Lookup" DisplayName="Path" List="Docs" FieldRef="ID" ShowField="DirName"
JoinColName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="FileDirRef"
FromBaseType="TRUE"/>
    <Field ID="{173f76c8-aebd-446a-9bc9-769a2bd2c18f}" Name="Last_x0020_Modified"
ReadOnly="TRUE" Hidden="TRUE" DisplayName="Modified" Type="Lookup" List="Docs" FieldRef="ID"
ShowField="TimeLastModified" Format="TRUE" JoinColName="DoclibRowId" JoinRowOrdinal="0"
JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="Last_x0020_Modified" FromBaseType="TRUE"/>
    <Field ID="{998b5cff-4a35-47a7-92f3-3914aa6aa4a2}" Name="Created_x0020_Date"
ReadOnly="TRUE" Hidden="TRUE" DisplayName="Created" Type="Lookup" List="Docs" FieldRef="ID"
ShowField="TimeCreated" Format="TRUE" JoinColName="DoclibRowId" JoinRowOrdinal="0"
JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="Created_x0020_Date" FromBaseType="TRUE"/>
    <Field ID="{8fca95c0-9b7d-456f-8dae-b41ee2728b85}" Name="File_x0020_Size"
Hidden="TRUE" ReadOnly="TRUE" Type="Lookup" DisplayName="File Size" List="Docs" FieldRef="ID"
ShowField="SizeInKB" Format="TRUE" JoinColName="DoclibRowId" JoinRowOrdinal="0"
JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="File_x0020_Size" FromBaseType="TRUE"/>
    <Field ID="{30bb605f-5bae-48fe-b4e3-1f81d9772af9}" Name="FSObjType" ReadOnly="TRUE"
Hidden="TRUE" ShowInFileDlg="FALSE" Type="Lookup" DisplayName="Item Type" List="Docs"
FieldRef="ID" ShowField="FSType" JoinColName="DoclibRowId" JoinRowOrdinal="0"
JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="FSObjType"
FromBaseType="TRUE"/>
    <Field ID="{ba3c27ee-4791-4867-8821-ff99000bac98}" Name="PermMask"
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ShowInFileDlg="FALSE" Type="Computed" DisplayName="Effective Permissions Mask"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="PermMask"
FromBaseType="TRUE">
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    </FieldRefs>
    <DisplayPattern>
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    </DisplayPattern>
</Field>
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ReadOnly="TRUE" Hidden="TRUE" ShowInFileDlg="FALSE" Type="Lookup" DisplayName="ID of the User
who has the item Checked Out" List="Docs" FieldRef="ID" ShowField="CheckoutUserId"
JoinColName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="CheckedOutUserId"
FromBaseType="TRUE"/>
    <Field ID="{cfaabd0f-bdbd-4bc2-b375-1e779e2cad08}" Name="IsCheckedoutToLocal"
DisplaceOnUpgrade="TRUE" ReadOnly="TRUE" Hidden="TRUE" ShowInFileDlg="FALSE" Type="Lookup"
DisplayName="Is Checked out to local" List="Docs" FieldRef="ID" ShowField="IsCheckoutToLocal"
JoinColName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="IsCheckedoutToLocal"
FromBaseType="TRUE"/>
    <Field ID="{3881510a-4e4a-4ee8-b102-8ee8e2d0dd4b}" ColName="tp_CheckoutUserId"
RowOrdinal="0" ReadOnly="TRUE" Type="User" List="UserInfo" Name="CheckoutUser"
DisplaceOnUpgrade="TRUE" DisplayName="Checked Out To"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="CheckoutUser"
FromBaseType="TRUE"/>
    <Field ID="{4b7403de-8d94-43e8-9f0f-137a3e298126}" Name="UniqueId"
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DisplayName="Unique Id" List="Docs" FieldRef="ID" ShowField="UniqueId"
JoinColName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="UniqueId"
FromBaseType="TRUE"/>
    <Field ID="{c5c4b81c-f1d9-4b43-a6a2-090df32ebb68}" Name="ProgId"
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DisplayName="ProgId" List="Docs" FieldRef="ID" ShowField="ProgId" JoinColName="DoclibRowId"

```

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JoinRowOrdinal="0" JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
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DisplayName="ScopeId" List="Docs" FieldRef="ID" ShowField="ScopeId" JoinColumnName="DoclibRowId"
JoinRowOrdinal="0" JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="ScopeId" FromBaseType="TRUE"/>
  <Field ID="{4a389cb9-54dd-4287-a71a-90ff362028bc}" Name="VirusStatus" Hidden="TRUE"
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ShowField="Size" Format="TRUE" JoinColumnName="DoclibRowId" JoinRowOrdinal="0" JoinType="INNER"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="VirusStatus"
FromBaseType="TRUE"/>
  <Field ID="{9d4adc35-7cc8-498c-8424-ee5fd541e43a}" Name="CheckedOutTitle"
Hidden="TRUE" ReadOnly="TRUE" Type="Lookup" DisplayName="Checked Out To" List="Docs"
FieldRef="ID" ShowField="CheckedOutTitle" Format="TRUE" JoinColumnName="DoclibRowId"
JoinType="INNER" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="CheckedOutTitle" FromBaseType="TRUE"/>
  <Field ID="{58014f77-5463-437b-ab67-eec79532da67}" Name="_CheckinComment"
DisplaceOnUpgrade="TRUE" ReadOnly="TRUE" Type="Lookup" DisplayName="Check In Comment"
List="Docs" FieldRef="ID" ShowField="CheckinComment" Filterable="FALSE" Format="TRUE"
JoinColumnName="DoclibRowId" JoinType="INNER" Sortable="FALSE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_CheckinComment"
FromBaseType="TRUE"/>
  <Field ID="{105f76ce-724a-4bba-aece-f81f2fce58f5}" ReadOnly="TRUE" Hidden="TRUE"
Type="Computed" Name="ServerUrl" DisplayName="Server Relative URL" Filterable="FALSE"
RenderXMLUsingPattern="TRUE" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="ServerUrl" FromBaseType="TRUE">
  <FieldRefs>
    <FieldRef Name="FileRef"/>
  </FieldRefs>
  <DisplayPattern>
    <HTML></HTML>
    <LookupColumn Name="FileRef"/>
  </DisplayPattern>
</Field>
  <Field ID="{7177cfc7-f399-4d4d-905d-37dd51bc90bf}" ReadOnly="TRUE" Hidden="TRUE"
Type="Computed" Name="EncodedAbsUrl" DisplayName="Encoded Absolute URL" Filterable="FALSE"
RenderXMLUsingPattern="TRUE" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="EncodedAbsUrl" FromBaseType="TRUE">
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    <FieldRef Name="FileRef"/>
  </FieldRefs>
  <DisplayPattern>
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    <HTML></HTML>
    <LookupColumn Name="FileRef" URLEncodeAsURL="TRUE"/>
  </DisplayPattern>
</Field>
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Name="FileSizeDisplay" DisplayName="File Size" AuthoringInfo=""
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="FileSizeDisplay"
FromBaseType="TRUE">
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    <FieldRef Name="FSObjType"/>
  </FieldRefs>
  <DisplayPattern>
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        <LookupColumn Name="FSObjType"/>
      </Expr>
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```

        <LookupColumn Name="File_x0020_Size"/>
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    </Case>
</Switch>
</DisplayPattern>
</Field>
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DisplaceOnUpgrade="TRUE" Hidden="TRUE" ShowInFileDlg="FALSE" Type="Lookup"
DisplayName="Property Bag" List="Docs" FieldRef="ID" ShowField="MetaInfo"
JoinColName="DoclibRowId" JoinType="INNER"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="MetaInfo"
FromBaseType="TRUE"/>
<Field ID="{43bdd51b-3c5b-4e78-90a8-fb2087f71e70}" ColName="tp_Level" RowOrdinal="0"
ReadOnly="TRUE" Type="Integer" Name="_Level" DisplaceOnUpgrade="TRUE" DisplayName="Level"
Hidden="TRUE" Required="FALSE" SourceID="http://schemas.microsoft.com/sharepoint/v3"
StaticName="_Level" FromBaseType="TRUE"/>
<Field ID="{c101c3e7-122d-4d4d-bc34-58e94a38c816}" ColName="tp_IsCurrentVersion"
DisplaceOnUpgrade="TRUE" RowOrdinal="0" ReadOnly="TRUE" Type="Boolean"
Name="_IsCurrentVersion" DisplayName="Is Current Version" Hidden="TRUE" Required="FALSE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_IsCurrentVersion"
FromBaseType="TRUE"/>
<Field ID="{d4e44a66-ee3a-4d02-88c9-4ec5ff3f4cd5}" ColName="tp_Version"
RowOrdinal="0" Hidden="TRUE" ReadOnly="TRUE" Type="Integer" SetAs="owshiddenversion"
Name="owshiddenversion" DisplayName="owshiddenversion"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="owshiddenversion"
FromBaseType="TRUE"/>
<Field ID="{7841bf41-43d0-4434-9f50-a673baef7631}" ColName="tp_UIVersion"
RowOrdinal="0" ReadOnly="TRUE" Type="Integer" Name="_UIVersion" DisplaceOnUpgrade="TRUE"
DisplayName="UI Version" Hidden="TRUE" CanToggleHidden="TRUE" Required="FALSE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_UIVersion"
FromBaseType="TRUE"/>
<Field ID="{dce8262a-3ae9-45aa-aab4-83bd75fb738a}" ColName="tp_UIVersionString"
RowOrdinal="0" ReadOnly="TRUE" Type="Text" Name="_UIVersionString" DisplaceOnUpgrade="TRUE"
DisplayName="Version" CanToggleHidden="TRUE" Required="FALSE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="_UIVersionString"
FromBaseType="TRUE"/>
<Field ID="{50a54da4-1528-4e67-954a-e2d24f1e9efb}" Name="InstanceID"
DisplayName="Instance ID" ColName="tp_InstanceID" RowOrdinal="0" ReadOnly="TRUE"
Hidden="TRUE" Type="Integer" Min="0" Max="99991231" Filterable="TRUE" Sortable="TRUE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="InstanceID"
FromBaseType="TRUE"/>
<Field ID="{ca4addac-796f-4b23-b093-d2a3f65c0774}" ColName="tp_ItemOrder"
RowOrdinal="0" Name="Order" DisplayName="Order" Type="Number" Hidden="TRUE"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="Order"
FromBaseType="TRUE"/>
<Field ID="{ae069f25-3ac2-4256-b9c3-15dbc15da0e0}" ColName="tp_GUID" RowOrdinal="0"
ReadOnly="TRUE" Hidden="TRUE" Type="Guid" Name="GUID" DisplaceOnUpgrade="TRUE"
DisplayName="GUID" SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="GUID"
FromBaseType="TRUE"/>
<Field ID="{f1e020bc-ba26-443f-bf2f-b68715017bbc}" ColName="tp_WorkflowVersion"
RowOrdinal="0" Hidden="TRUE" ReadOnly="TRUE" Type="Integer" Name="WorkflowVersion"
DisplaceOnUpgrade="TRUE" DisplayName="Workflow Version"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="WorkflowVersion"
FromBaseType="TRUE"/>
<Field ID="{de8beacf-5505-47cd-80a6-aa44e7ffe2f4}" ColName="tp_WorkflowInstanceID"
RowOrdinal="0" ReadOnly="TRUE" Hidden="TRUE" Type="Guid" Name="WorkflowInstanceID"
DisplaceOnUpgrade="TRUE" DisplayName="Workflow Instance ID"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="WorkflowInstanceID"
FromBaseType="TRUE"/>
<Field ID="{bc1a8efb-0f4c-49f8-a38f-7fe22af3d3e0}" Name="ParentVersionString"
DisplaceOnUpgrade="TRUE" ReadOnly="TRUE" DisplayName="Source Version (Converted Document)"
ShowInFileDlg="FALSE" Type="Lookup" List="Docs" FieldRef="ID" ShowField="ParentVersionString"
JoinColName="DoclibRowId" JoinType="INNER"

```

```

SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ParentVersionString"
FromBaseType="TRUE"/>
  <Field ID="{774eab3a-855f-4a34-99da-69dc21043bec}" Name="ParentLeafName"
DisplaceOnUpgrade="TRUE" ReadOnly="TRUE" DisplayName="Source Name (Converted Document)"
ShowInFileDlg="FALSE" Type="Lookup" List="Docs" FieldRef="ID" ShowField="ParentLeafName"
JoinColName="DoclibRowId" JoinType="INNER"
SourceID="http://schemas.microsoft.com/sharepoint/v3" StaticName="ParentLeafName"
FromBaseType="TRUE"/>
</Fields>
<ContentTypes>
  <ContentType ID="0x01010082959E8711C9F247BF9F13EE0597E4B9" Name="Document"
Group="Document Content Types" Description="Create a new document."
V2ListTemplateName="doclib" Version="2" FeatureId="{695b6570-a48b-4a8e-8ea5-26ea7fcd162}">
  <FieldRefs>
    <FieldRef ID="{c042a256-787d-4a6f-8a8a-cf6ab767f12d}" Name="ContentType"/>
    <FieldRef ID="{8553196d-ec8d-4564-9861-3dbe931050c8}" Name="FileLeafRef"
Required="TRUE"/>
    <FieldRef ID="{8c06beca-0777-48f7-91c7-6da68bc07b69}" Name="Created"
Hidden="TRUE"/>
    <FieldRef ID="{fa564e0f-0c70-4ab9-b863-0177e6ddd247}" Name="Title"
Required="FALSE" ShowInNewForm="FALSE" ShowInEditForm="TRUE"/>
    <FieldRef ID="{28cf69c5-fa48-462a-b5cd-27b6f9d2bd5f}" Name="Modified"
Hidden="TRUE"/>
    <FieldRef ID="{822c78e3-1ea9-4943-b449-57863ad33ca9}" Name="Modified_x0020_By"
Hidden="FALSE"/>
    <FieldRef ID="{4dd7e525-8d6b-4cb4-9d3e-44ee25f973eb}" Name="Created_x0020_By"
Hidden="FALSE"/>
    <FieldRef ID="{a4ea3d22-3784-48a6-ac9c-2d919ba467b6}" Name="Hyperlink"
Required="FALSE"/>
    <FieldRef ID="{b80e0038-ce98-4f9f-a288-27e68da96899}"
Name="My_x0020_Lookup_x0020_Column" Required="FALSE"/>
  </FieldRefs>
  <XmlDocuments>
    <XmlDocument
NamespaceURI="http://schemas.microsoft.com/sharepoint/v3/contenttype/forms">
      <FormTemplates
xmlns="http://schemas.microsoft.com/sharepoint/v3/contenttype/forms">
        <Display>DocumentLibraryForm</Display>
        <Edit>DocumentLibraryForm</Edit>
        <New>DocumentLibraryForm</New>
      </FormTemplates>
    </XmlDocument>
  </XmlDocuments>
  <Folder TargetName="Forms/Document"/>
</ContentType>
<ContentTypeRef ID="0x012000C1930B146F636B42ACCD637296104AC4"/>
<ContentType ID="0x0101"/>
<ContentType ID="0x0120"/>
</ContentTypes>
<Views>
  <View Name="052044e4-6fb3-42ba-883c-0954d77f5925" DefaultView="true" Flags="25165825"
Type="RECURRENCE" Hidden="false" Threaded="false" FPModified="false" ReadOnly="false"
RecurrenceRowset="false" ModerationType="" Personal="false" OrderedView="false"
MobileView="true" MobileDefaultView="true" DefaultViewForContentType="false"
HackLockWeb="false" FailIfEmpty="false" FreeForm="false" FileDialog="false"
AggregateView="false" IncludeRootFolder="false" IncludeVersions="false" DisplayName="All
Documents" Url="/My Document Library/Forms/AllItems.aspx" FileId="4a5e75fe-133f-493e-81da-
460583d814c7" BaseViewID="1" WebPartZoneID="Main" IsIncluded="true" WebPartOrder="1"
FrameState="0">
    <ViewFields>
      <FieldRef Name="Title"/>
      <FieldRef Name="Modified"/>

```

```

        <FieldRef Name="Editor"/>
        <FieldRef Name="Hyperlink"/>
        <FieldRef Name="My_x0020_Lookup_x0020_Column"/>
    </ViewFields>
</View>
    <View Name="a9cb7ffc-6885-4961-8034-304304448a99" DefaultView="false"
Flags="1073741857" Type="RECURRENCE" Hidden="false" Threaded="false" FPModified="false"
ReadOnly="true" RecurrenceRowset="false" ModerationType="" Personal="false"
OrderedView="false" MobileView="false" MobileDefaultView="false"
DefaultViewForContentType="false" HackLockWeb="false" FailIfEmpty="false" FreeForm="false"
FileDialog="false" AggregateView="false" IncludeRootFolder="false" IncludeVersions="false"
DisplayName="Explorer View" Url="/My Document Library/Forms/WebFldr.aspx" FileId="28b84bbc-
cb10-4a58-b3d1-32cd118d7e4e" BaseViewID="3" WebPartZoneID="Main" IsIncluded="true"
WebPartOrder="1" FrameState="0" />
    <View Name="db460cb5-c801-4fb0-8b3a-2088c35bffa0" DefaultView="false" Flags="1033"
Type="RECURRENCE" Hidden="true" Threaded="false" FPModified="false" ReadOnly="false"
RecurrenceRowset="false" ModerationType="" Personal="false" OrderedView="false"
MobileView="false" MobileDefaultView="false" DefaultViewForContentType="false"
HackLockWeb="false" FailIfEmpty="false" FreeForm="false" FileDialog="false"
AggregateView="true" IncludeRootFolder="false" IncludeVersions="false" DisplayName="Merge
Documents" Url="/My Document Library/Forms/Combine.aspx" FileId="ece3d6c7-9b29-43a3-8536-
0384553005b5" BaseViewID="7" WebPartZoneID="Main" IsIncluded="true" WebPartOrder="1"
FrameState="0" />
    <View Name="9c3c354a-8e0e-48b3-8074-fc2c39564e85" DefaultView="false" Flags="9"
Type="RECURRENCE" Hidden="true" Threaded="false" FPModified="false" ReadOnly="false"
RecurrenceRowset="false" ModerationType="" Personal="false" OrderedView="false"
MobileView="false" MobileDefaultView="false" DefaultViewForContentType="false"
HackLockWeb="false" FailIfEmpty="false" FreeForm="false" FileDialog="false"
AggregateView="false" IncludeRootFolder="false" IncludeVersions="false" DisplayName="Relink
Documents" Url="/My Document Library/Forms/repair.aspx" FileId="fb324cc6-5519-49b3-a172-
afd99f414ce0" BaseViewID="9" WebPartZoneID="Main" IsIncluded="true" WebPartOrder="1"
FrameState="0" />
</Views>
<Forms>
    <Form Name="db278a59-8cc3-4395-a9f6-a1438bd1de05" Type="DisplayForm" Url="/My
Document Library/Forms/DispForm.aspx" Flags="1048576" FileId="32812341-616c-48fa-bb40-
429d85fa91fa" />
    <Form Name="abb5a635-4172-4be3-914f-88d0400179cb" Type="EditForm" Url="/My Document
Library/Forms/EditForm.aspx" Flags="1048576" FileId="cf64dcba-76e9-40f9-8969-60afc4fd7ca8" />
    <Form Name="21ccd1b4-0a7e-44a1-ad15-0cc5d89190d2" Type="NewForm" Url="/My Document
Library/Forms/Upload.aspx" Flags="1048576" FileId="0df1be23-84db-4ddf-8cf6-ce9c8d8edd85" />
</Forms>
<EventReceivers>
    <EventReceiver Id="6df8b39e-6a65-41a5-a6f5-4c20c9724172" Name="MyEventReceiver"
WebId="37bcb4ae-b822-4a2b-9cac-455c7df77bb6" HostId="93a3afb3-c9bc-40ae-aa4a-a4a7f050dc45"
HostType="List" Type="ItemUpdated" SequenceNumber="1001"
Assembly="Microsoft.SharePoint.Publishing, Version=12.0.0.0, Culture=neutral,
PublicKeyToken=71e9bce111e9429c"
Class="Microsoft.SharePoint.Publishing.Internal.ScheduledItemEventReceiver" Data="" Filter=""
Credential="0" />
</EventReceivers>
</DocumentLibrary>
</SPObject>
    <SPObject Id="5db8ef56-a37c-4369-8f77-b45346ff1c6c" ObjectType="SPFolder"
ParentId="abb0b0b6-5f6a-4d63-9fc1-510b57a1e009" ParentWebId="37bcb4ae-b822-4a2b-9cac-
455c7df77bb6" ParentWebUrl="/" Url="/My Document Library/SubFolder">
        <Folder Id="5db8ef56-a37c-4369-8f77-b45346ff1c6c" Url="My Document Library/SubFolder"
Name="SubFolder" ParentFolderId="abb0b0b6-5f6a-4d63-9fc1-510b57a1e009" ParentWebId="37bcb4ae-
b822-4a2b-9cac-455c7df77bb6" ParentWebUrl="/" ContainingDocumentLibrary="93a3afb3-c9bc-40ae-
aa4a-a4a7f050dc45" ListItemIntId="2" TimeCreated="2008-02-13T21:17:14"
TimeLastModified="2008-02-13T21:17:45" />
    </SPObject>

```



```

    <SPObject Id="951a67fb-7115-4cb9-9d5b-d6c94db59155" ObjectType="SPListItem"
    ParentId="aa635886-78b0-4bc6-b8cd-4aff93bd1720" ParentWebId="37bcb4ae-b822-4a2b-9cac-
    455c7df77bb6" ParentWebUrl="/" Url="/Lists/My List/1_.000">
      <ListItem FileUrl="Lists/My List/1_.000" DocType="File" ParentFolderId="b042a0c0-3d8e-
    4056-9560-498eb52878a5" Id="951a67fb-7115-4cb9-9d5b-d6c94db59155" ParentWebId="37bcb4ae-b822-
    4a2b-9cac-455c7df77bb6" ParentListId="aa635886-78b0-4bc6-b8cd-4aff93bd1720" Name="1_.000"
    DirName="Lists/My List" IntId="1" DocId="c1b2ce23-c103-42e3-b5c3-ba379b55ffbe" Version="1.0"
    ContentTypeId="0x0100DA11EF49E5DB3D47AF67ACD91FB1C789" Author="1073741823"
    ModifiedBy="1073741823" TimeLastModified="2008-02-13T21:18:59" TimeCreated="2008-02-
    13T21:18:59" ModerationStatus="Approved">
        <Fields>
          <Field Name="Title" Value="My List Item" FieldId="fa564e0f-0c70-4ab9-b863-
    0177e6ddd247" />
          <Field Name="_ModerationComments" FieldId="34ad21eb-75bd-4544-8c73-0e08330291fe" />
          <Field Name="File_x0020_Type" FieldId="39360f11-34cf-4356-9945-25c44e68dade" />
        </Fields>
      </ListItem>
    </SPObject>
    <SPObject Id="6fe0d012-35d4-4254-88f0-3b89eaf42984" ObjectType="SPListItem"
    ParentId="93a3afb3-c9bc-40ae-aa4a-a4a7f050dc45" ParentWebId="37bcb4ae-b822-4a2b-9cac-
    455c7df77bb6" ParentWebUrl="/" Url="/My Document Library/BLANK.GIF">
      <ListItem FileUrl="My Document Library/BLANK.GIF" DocType="File"
    ParentFolderId="abb0b0b6-5f6a-4d63-9fc1-510b57a1e009" Id="6fe0d012-35d4-4254-88f0-
    3b89eaf42984" ParentWebId="37bcb4ae-b822-4a2b-9cac-455c7df77bb6" ParentListId="93a3afb3-c9bc-
    40ae-aa4a-a4a7f050dc45" Name="BLANK.GIF" DirName="My Document Library" IntId="5"
    DocId="f3ea7289-65dc-4dc7-917b-b26d11efddel" Version="1.0"
    ContentTypeId="0x01010082959E8711C9F247BF9F13EE0597E4B9" Author="1073741823"
    ModifiedBy="1073741823" TimeLastModified="2008-02-14T00:34:09" TimeCreated="2008-02-
    14T00:34:02" ModerationStatus="Approved">
        <Fields>
          <Field Name="_ModerationComments" FieldId="34ad21eb-75bd-4544-8c73-0e08330291fe" />
          <Field Name="Modified_x0020_By" FieldId="822c78e3-1ea9-4943-b449-57863ad33ca9" />
          <Field Name="Created_x0020_By" FieldId="4dd7e525-8d6b-4cb4-9d3e-44ee25f973eb" />
          <Field Name="File_x0020_Type" Value="gif" FieldId="39360f11-34cf-4356-9945-
    25c44e68dade" />
          <Field Name="_SourceUrl" FieldId="c63a459d-54ba-4ab7-933a-dcflc6fadec2" />
          <Field Name="_SharedFileIndex" FieldId="034998e9-bf1c-4288-bbbd-00eacfc64410" />
          <Field Name="Title" FieldId="fa564e0f-0c70-4ab9-b863-0177e6ddd247" />
          <Field Name="TemplateUrl" FieldId="4b1bf6c6-4f39-45ac-acd5-16fe7a214e5e" />
          <Field Name="xd_ProgID" FieldId="cd1ecb9f-dd4e-4f29-ab9e-e9ff40048d64" />
          <Field Name="xd_Signature" FieldId="fbf29b2d-cae5-49aa-8e0a-29955b540122" />
          <Field Name="Hyperlink" FieldId="a4ea3d22-3784-48a6-ac9c-2d919ba467b6" />
          <Field Name="My_x0020_Lookup_x0020_Column" FieldId="b80e0038-ce98-4f9f-a288-
    27e68da96899" />
        </Fields>
      </ListItem>
    </SPObject>
    <SPObject Id="ca7bd552-10b1-4563-85b9-5ed1d39c962a" ObjectType="SPFeature" ParentId=""
    ParentWebId="">
      <Feature Id="ca7bd552-10b1-4563-85b9-5ed1d39c962a" FeatureDefinitionName="Fields" />
    </SPObject>
    <SPObject Id="695b6570-a48b-4a8e-8ea5-26ea7fc1d162" ObjectType="SPFeature" ParentId=""
    ParentWebId="">
      <Feature Id="695b6570-a48b-4a8e-8ea5-26ea7fc1d162" FeatureDefinitionName="CTypes" />
    </SPObject>
  </SPObjects>

```

3.2 ExportSettings.xml

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

```
<ExportSettings xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  SiteUrl="http://www.contoso.com/"
```

FileLocation="D:\WINDOWS\TEMP\ContentDeployment\d2c97251-b8b8-47ef

```
-9eec-fb5bc76704a2"
  BaseFileName="ExportedFiles.cab"
  IncludeSecurity="All"
  IncludeVersions="LastMajorAndMinor"
  ExportPublicSchema="true"
  ExportMethod="ExportAll"
  ExportFrontEndFileStreams="true"
  ExcludeDependencies="false"
  xmlns="urn:deployment-exportsettings-schema">
  <ExportObjects>
    <DeploymentObject Id="9d2e4e60-d282-44ea-b3ed-7eceb77fea9b" Type="Site"
      ParentId="00000000-0000-0000-0000-000000000000" Url="/"
      ExcludeChildren="false" IncludeDescendants="All"
      ExportChangeToken="1;1;9d2e4e60-d282-44ea-b3ed-7eceb77
        fea9b;633385457314830000;229" />
  </ExportObjects>
</ExportSettings>
```

3.3 LookupListMap.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LookupLists xmlns="urn:deployment-lookuplistmap-schema">
  <LookupList Id="aa635886-78b0-4bc6-b8cd-4aff93bd1720" Url="/Lists/My List"
    Included="true">
    <LookupItems>
      <LookupItem Id="2" DocId="c0fb6f9f-a65a-4b7f-923c-0d7e667980b2"
        Url="/Lists/My List/2_.000" Included="true" />
    </LookupItems>
  </LookupList>
</LookupLists>
```

3.4 Requirements.xml

```
<?xml version="1.0" encoding="utf-8"?>
<Requirements xmlns="urn:deployment-requirements-schema">
  <Requirement Type="Language" Id="1033" Name="English" />
  <Requirement Type="WebTemplate" Id="STS#1" Name="1033" Data="English" />
  <Requirement Type="WebPart" Id="Microsoft.SharePoint.dll v2.0.50727"
    Name="2242cce6-491a-657a-c8ee-b10a2a993eda" />
</Requirements>
```

3.5 RootObjectMap.xml

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

```

<RootObjects xmlns="urn:deployment-rootobjectmap-schema">
  <RootObject Id="37bcb4ae-b822-4a2b-9cac-455c7df77bb6" Type="Web"
    ParentId="00000000-0000-0000-0000-000000000000" WebUrl="/" Url="/"
    IsDependency="false" />
</RootObjects>

```

3.6 SystemData.xml

```

<?xml version="1.0" encoding="utf-8"?>
<SystemData xmlns="urn:deployment-systemdata-schema">
  <SchemaVersion Version="14.0.0.0" Build="14.0.4730.1000"
    DatabaseVersion="3654" SiteVersion="0" />
  <ManifestFiles>
    <ManifestFile Name="Manifest.xml" />
  </ManifestFiles>
  <SystemObjects>
    <SystemObject Id="37bcb4ae-b822-4a2b-9cac-455c7df77bb6"
      Type="Web" Url="/" />
    <SystemObject Id="be8e4051-d413-47e8-b5ff-92508a8c21d3"
      Type="Folder" Url="/_cts/Event" />
    <SystemObject Id="647933ce-d7cb-4841-a6b8-ffbea30adf15"
      Type="File" Url="/default.aspx" />
  </SystemObjects>
  <RootWebOnlyLists>
    <List Id="9c12f031-869e-4ff5-945d-d14e6ea8b563" />
    <List Id="0853cca3-a321-4644-8080-eaac0bb6e621" />
    <List Id="4d3d3602-261e-4b85-9119-c5e2b400db5b" />
    <List Id="df2d980f-7a9f-4247-bc60-66df1af82f59" />
    <List Id="4aa352a6-877d-4102-85b7-96dd73865e7" />
  </RootWebOnlyLists>
</SystemData>

```

3.7 UserGroup.xml

```

<?xml version="1.0" encoding="utf-8"?>
<UserGroupMap xmlns="urn:deployment-usergroupmap-schema">
  <Users>
    <User Id="1" Name="Syed Abbas" Login="CONTOSO\syed"
      Email="syed@contoso.com" IsDomainGroup="false" IsSiteAdmin="true"
      SystemId="AQUAAAAAAAAUVAAAAOdDMgvnlqPP4alT6KgQBAA=="
      IsDeleted="false" />
    <User Id="6" Name="NT AUTHORITY\local service"
      Login="NT AUTHORITY\local service" Email="" IsDomainGroup="false"
      IsSiteAdmin="false" SystemId="AQEAAAAAAAAUTAAAA"
      IsDeleted="false" />
  </Users>
  <Groups>
    <Group Id="3"
      Name="Sample Site Owners"
      Description="Use this group to give people full"
        " control permissions to the SharePoint"
        " site: Sample Site"
      Owner="3" OwnerIsUser="false" />
  </Groups>
</UserGroupMap>

```

```

        RequestToJoinLeaveEmailSetting=""
        OnlyAllowMembersViewMembership="true">
    <Member UserId="1" />
</Group>
<Group Id="4"
    Name="Sample Site Visitors"
    Description="Use this group to give people read"
        " permissions to the SharePoint site:"
        " Sample Site"
    Owner="3" OwnerIsUser="false"
    RequestToJoinLeaveEmailSetting=""
    OnlyAllowMembersViewMembership="true" />
<Group Id="5"
    Name="Sample Site Members"
    Description="Use this group to give people "
        "contribute permissions to the "
        "SharePoint site: Sample Site"
    Owner="3" OwnerIsUser="false"
    RequestToJoinLeaveEmailSetting="" />
</Groups>
</UserGroupMap>

```

3.8 ViewFormsList.xml

```

<?xml version="1.0" encoding="utf-8"?>

<ViewFormsList xmlns="urn:deployment-viewformlist-schema">
    <ViewForm Id="052044e4-6fb3-42ba-883c-0954d77f5925" Type="View" />
    <ViewForm Id="a9cb7ffc-6885-4961-8034-304304448a99" Type="View" />
    <ViewForm Id="db460cb5-c801-4fb0-8b3a-2088c35bffa0" Type="View" />
    <ViewForm Id="9c3c354a-8e0e-48b3-8074-fc2c39564e85" Type="View" />
    <ViewForm Id="db278a59-8cc3-4395-a9f6-a1438bd1de05" Type="Forms" />
    <ViewForm Id="abb5a635-4172-4be3-914f-88d0400179cb" Type="Forms" />
    <ViewForm Id="21ccd1b4-0a7e-44a1-ad15-0cc5d89190d2" Type="Forms" />
</ViewFormsList>

```

4 Security Considerations

4.1 Security Considerations for Implementers

This format simply represents a set of XML documents. Implementations that process XML documents contained in this format should guard against the same kinds of threats that occur when processing other XML documents. If the compressed option is used, processing the cabinet (.cab) file should guard against the same kinds of threats that apply to those, notably through files that expand to many times their original size.

4.2 Index of Security Fields

None.

5 Appendix A: Full XML Schema Files

5.1 Manifest.xml Schema

This XML schema includes the XML schema described in [\[MS-WSSCAML\]](#) section 2.5.1.22.1, replacing the `http://schemas.microsoft.com/sharepoint/soap` namespace in the schema with `urn:deployment-manifest-schema`.

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

<xs:schema
  id="DeploymentManifest"
  targetNamespace="urn:deployment-manifest-schema"
  elementFormDefault="qualified"
  xmlns="urn:deployment-manifest-schema"
  xmlns:mstns="urn:deployment-manifest-schema"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:core="urn:deployment-manifest-schema">
  <xs:include
    id="WSS"

    schemaLocation="wsswire_DeploymentManifest.xsd" />

  <xs:complexType name="SPGenericObjectCollection">
    <xs:sequence>
      <xs:element name="SPObject"
        type="SPGenericObject"
        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SPGenericObject">
    <xs:sequence>
      <xs:choice minOccurs="0" maxOccurs="1">
        <xs:element name="Site" type="SPSite" />
        <xs:element name="Web" type="SPWeb" />
        <xs:element name="List" type="SPList" />
        <xs:element name="DocumentLibrary" type="SPDocumentLibrary" />
        <xs:element name="ListItem" type="SPListItem" />
        <xs:element name="Folder" type="SPFolder" />
        <xs:element name="File" type="SPFile" />
        <xs:element name="ContentType" type="SPContentType" />
        <xs:element name="FieldTemplate"
          type="DeploymentFieldTemplate" />
        <xs:element name="WebStructure" type="DeploymentWebStructure" />
        <xs:element name="UserX" type="DeploymentUserX" />
        <xs:element name="GroupX" type="DeploymentGroupX" />
        <xs:element name="Roles" type="DeploymentRoles" />
        <xs:element name="RoleX" type="DeploymentRoleX" />
        <xs:element name="RoleAssignments"
          type="DeploymentRoleAssignments" />
        <xs:element name="RoleAssignmentX"
          type="DeploymentRoleAssignmentX" />
        <xs:element name="Feature" type="SPFeature" />
      </xs:choice>
    </xs:sequence>
    <xs:attribute name="ObjectType" type="SPObjType" use="required"/>
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces" />
  </xs:complexType>
</xs:schema>
```

```

        use="required"/>
<xs:attribute name="ParentId"
    type="core:UniqueIdentifierWithoutBracesOrEmpty"
    use="required"/>
<xs:attribute name="IsDeleted" type="core:truefalse_Only_Lowercase"
    use="optional" default="false"/>
<xs:attribute name="IsSiteRename" type="core:truefalse_Only_Lowercase"
    use="optional" default="false"/>
<xs:attribute name="ParentWebId"
    type="core:UniqueIdentifierWithoutBracesOrEmpty"
    use="required"/>
<xs:attribute name="ParentWebUrl" type="String261"
    use="optional" />
<xs:attribute name="ContentTypeId" type="core:ContentTypeId"
    use="optional" />
<xs:attribute name="Url" type="String261" use="optional"/>
</xs:complexType>

<xs:simpleType name="SPDictionaryEntryValueType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="String" />
        <xs:enumeration value="Integer" />
        <xs:enumeration value="Time" />
        <xs:enumeration value="StringVector" />
        <xs:enumeration value="Boolean" />
        <xs:enumeration value="FileSystemTime" />
        <xs:enumeration value="IntVector" />
        <xs:enumeration value="Double" />
        <xs:enumeration value="LongText" />
        <xs:enumeration value="Empty" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPDictionaryEntryAccess">
    <xs:restriction base="xs:string">
        <xs:enumeration value="ReadOnly" />
        <xs:enumeration value="ReadWrite" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPObjectType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="SPSite" />
        <xs:enumeration value="SPWeb" />
        <xs:enumeration value="SPList" />
        <xs:enumeration value="SPDocumentLibrary" />
        <xs:enumeration value="SPListItem" />
        <xs:enumeration value="SPFolder" />
        <xs:enumeration value="SPFile" />
        <xs:enumeration value="SPContentType" />
        <xs:enumeration value="DeploymentWebStructure" />
        <xs:enumeration value="DeploymentUserX" />
        <xs:enumeration value="DeploymentGroupX" />
        <xs:enumeration value="DeploymentRoles" />
        <xs:enumeration value="DeploymentRoleX" />
        <xs:enumeration value="DeploymentRoleAssignments" />
        <xs:enumeration value="DeploymentRoleAssignmentX" />
        <xs:enumeration value="DeploymentFieldTemplate" />
        <xs:enumeration value="SPFeature" />
    </xs:restriction>
</xs:simpleType>

```

```

    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="OtherObjectType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="SPDocTemplate" />
    <xs:enumeration value="SPDataRetrievalSettings" />
    <xs:enumeration value="SDDocDiscussion" />
    <xs:enumeration value="SPFileVersion" />
    <xs:enumeration value="SPForm" />
    <xs:enumeration value="SPLanguage" />
    <xs:enumeration value="SPListEvent" />
    <xs:enumeration value="SPListItemVersion" />
    <xs:enumeration value="SPListTemplate" />
    <xs:enumeration value="SPLocale" />
    <xs:enumeration value="SPModerationInfo" />
    <xs:enumeration value="SPQuery" />
    <xs:enumeration value="SPRegionalSetting" />
    <xs:enumeration value="SPTimeZone" />
    <xs:enumeration value="SPUserStorage" />
    <xs:enumeration value="SPView" />
    <xs:enumeration value="SPFeature" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SecurityModificationType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Add" />
    <xs:enumeration value="Delete" />
    <xs:enumeration value="Update" />
    <xs:enumeration value="MemberAdd" />
    <xs:enumeration value="MemberDelete" />
    <xs:enumeration value="RoleAdd" />
    <xs:enumeration value="RoleDelete" />
    <xs:enumeration value="RoleUpdate" />
    <xs:enumeration value="RoleAssignmentAdd" />
    <xs:enumeration value="RoleAssignmentDelete" />
    <xs:enumeration value="ScopeAdd" />
    <xs:enumeration value="ScopeDelete" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPRoleChangeType">
  <xs:restriction base="xs:int">
    <xs:enumeration value="0"/>
    <xs:enumeration value="1"/>
    <xs:enumeration value="2"/>
    <xs:enumeration value="4"/>
    <xs:enumeration value="10"/>
    <xs:enumeration value="20"/>
    <xs:enumeration value="26"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPRoleType">
  <xs:restriction base="xs:int">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="5"/>
  </xs:restriction>

```



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</xs:simpleType>

<xs:simpleType name="ScopeObjectType">
  <xs:restriction base="xs:int">
    <xs:minInclusive value="0"/>
    <xs:maxInclusive value="2"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="DeploymentUserX">
  <xs:attribute name="Operation" use="required" >
    <xs:simpleType>
      <xs:restriction base="SecurityModificationType">
        <xs:enumeration value="Add" />
        <xs:enumeration value="Delete" />
        <xs:enumeration value="Update" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Id" type="xs:int" use="required" />
  <xs:attribute name="Name" type="String255NonEmpty" use="required" />
  <xs:attribute name="Login" type="String255NonEmpty" use="required" />
  <xs:attribute name="Email" type="String255" use="optional" />
  <xs:attribute name="SystemId" type="xs:base64Binary" use="required" />
  <xs:attribute name="IsDomainGroup" type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="IsSiteAdmin" type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="MobilePhone" type="xs:string" use="optional" />
  <xs:attribute name="Flags" type="xs:int" use="optional" />
</xs:complexType>

<xs:complexType name="DeploymentGroupX">
  <xs:attribute name="Operation" use="required" >
    <xs:simpleType>
      <xs:restriction base="SecurityModificationType">
        <xs:enumeration value="Add" />
        <xs:enumeration value="Delete" />
        <xs:enumeration value="Update" />
        <xs:enumeration value="MemberAdd" />
        <xs:enumeration value="MemberDelete" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Id" type="xs:int" use="required" />
  <xs:attribute name="Name" type="String255NonEmpty" use="required" />
  <xs:attribute name="Description" type="String512" use="optional" />
  <xs:attribute name="OwnerLogin" type="String255" use="optional" />
  <xs:attribute name="OwnerIsUser" type="core:truefalse_Only_Lowercase"
    use="optional" default="true" />
  <xs:attribute name="UserId" type="xs:int" use="optional" />
  <xs:attribute name="UserLogin" type="String255" use="optional" />
  <xs:attribute name="RequestToJoinLeaveEmailSetting" type="String255"
    use="optional" />
  <xs:attribute name="OnlyAllowMembersViewMembership"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AllowMembersEditMembership"
    type="core:truefalse_Only_Lowercase"

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        use="optional" default="false" />
<xs:attribute name="AllowRequestToJoinLeave"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
<xs:attribute name="AutoAcceptRequestToJoinLeave"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
</xs:complexType>

<xs:complexType name="DeploymentRoleX">
    <xs:attribute name="Operation" use="required" >
        <xs:simpleType>
            <xs:restriction base="SecurityModificationType">
                <xs:enumeration value="RoleAdd" />
                <xs:enumeration value="RoleDelete" />
                <xs:enumeration value="RoleUpdate" />
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="OperationCode" type="SPRoleChangeType"
        use="required" />
    <xs:attribute name="WebId" type="core:UniqueIdentifierWithoutBraces"
        use="required" />
    <xs:attribute name="WebUrl" type="String255" use="required" />
    <xs:attribute name="RoleId" type="xs:int" use="optional" />
    <xs:attribute name="Title" type="String255NonEmpty" use="optional" />
    <xs:attribute name="Description" type="String512" use="optional" />
    <xs:attribute name="PermMask" type="xs:unsignedLong" use="optional" />
    <xs:attribute name="Hidden" type="core:truefalse_Only_Lowercase"
        use="optional" default="false" />
    <xs:attribute name="RoleOrder" use="optional" default="0">
        <xs:simpleType>
            <xs:restriction base='xs:int'>
                <xs:minInclusive value="0" />
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="Type" type="SPRoleType"
        use="optional" default="0" />
    <xs:attribute name="UserId" type="xs:int" use="optional" />
    <xs:attribute name="UserLogin" type="String255NonEmpty"
        use="optional" />
</xs:complexType>

<xs:complexType name="DeploymentRole">
    <xs:attribute name="RoleId" type="xs:int" use="required" />
    <xs:attribute name="Title" type="StringNonEmpty" use="required" />
    <xs:attribute name="Description" type="String512" use="required" />
    <xs:attribute name="PermMask" type="xs:unsignedLong" use="required" />
    <xs:attribute name="Hidden" type="core:truefalse_Only_Lowercase"
        use="required" />
    <xs:attribute name="RoleOrder" use="optional" default="0">
        <xs:simpleType>
            <xs:restriction base='xs:int'>
                <xs:minInclusive value="0" />
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="Type" type="SPRoleType"

```

```

        use="optional" default="0" />
</xs:complexType>

<xs:complexType name="DeploymentRoles">
  <xs:sequence>
    <xs:element name="Role" type="DeploymentRole"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="DeploymentAssignment">
  <xs:attribute name="RoleId" type="xs:int" use="required" />
  <xs:attribute name="PrincipalId" type="xs:int" use="required" />
</xs:complexType>

<xs:complexType name="DeploymentRoleAssignmentX">
  <xs:attribute name="Operation" use="required">
    <xs:simpleType>
      <xs:restriction base="SecurityModificationType">
        <xs:enumeration value="RoleAssignmentAdd" />
        <xs:enumeration value="RoleAssignmentDelete" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="OperationCode" type="SPRoleChangeType"
    use="required" />
  <xs:attribute name="ScopeId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="RoleDefWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="RoleDefWebUrl" type="String255" use="required" />
  <xs:attribute name="ObjectId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ObjectType" type="ScopeObjectType" use="required" />
  <xs:attribute name="ObjectUrl" type="String255" use="required" />
  <xs:attribute name="AnonymousPermMask" type="xs:unsignedLong"
    use="required" />
  <xs:attribute name="RoleName" type="String255" use="optional" />
  <xs:attribute name="GroupTitle" type="String255" use="optional" />
  <xs:attribute name="UserLogin" type="String255" use="optional" />
</xs:complexType>

<xs:complexType name="DeploymentRoleAssignment">
  <xs:sequence>
    <xs:element name="Assignment" type="DeploymentAssignment"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>

  <xs:attribute name="ScopeId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="RoleDefWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="RoleDefWebUrl" type="String255" use="required" />
  <xs:attribute name="ObjectId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ObjectType" type="ScopeObjectType" use="required" />
  <xs:attribute name="ObjectUrl" type="String255" use="required" />
  <xs:attribute name="AnonymousPermMask" type="xs:unsignedLong"
    use="required" />

```

```

</xs:complexType>

<xs:complexType name="DeploymentRoleAssignments">
  <xs:sequence>
    <xs:element name="RoleAssignment" type="DeploymentRoleAssignment"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="DictionaryEntry">
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="Value" type="xs:string" use="optional" />
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="Type" type="SPDictionaryEntryValueType"
    default="String" use="optional" />
  <xs:attribute name="Access" type="SPDictionaryEntryAccess"
    default="ReadWrite" use="optional" />
</xs:complexType>

<xs:complexType name="Dictionary">
  <xs:sequence>
    <xs:element name="Property" type="DictionaryEntry"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPAttachment">
  <xs:sequence>
    <xs:element name="Properties" type="Dictionary" minOccurs="0" />
  </xs:sequence>

  <xs:attribute name="Name" type="String255NonEmpty" use="required" />
  <xs:attribute name="Url" type="String256" use="required" />
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="FileValue" type="PackageFileName" use="required" />
  <xs:attribute name="Author" type="xs:int" use="optional" />
  <xs:attribute name="ModifiedBy" type="xs:int" use="optional" />
  <xs:attribute name="TimeCreated" type="xs:dateTime" use="optional" />
  <xs:attribute name="TimeLastModified" type="xs:dateTime" use="optional" />
  <xs:attribute name="FailureMessage" type="xs:string" use="optional" />
</xs:complexType>

<xs:complexType name="SPAttachmentCollection">
  <xs:sequence>
    <xs:element name="Attachment" type="SPAttachment"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPLink">
  <xs:sequence></xs:sequence>
  <xs:attribute name="TargetId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="TargetUrl" type="xs:string" use="required" />
  <xs:attribute name="IsDirty" type="OnlyFalse" use="required" />

```

```

<xs:attribute name="WebPartId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
<xs:attribute name="LinkNumber" type="xs:int" use="optional" />
<xs:attribute name="Type" type="xs:unsignedByte" use="optional" />
<xs:attribute name="Security" type="xs:unsignedByte" use="optional" />
<xs:attribute name="Dynamic" type="xs:unsignedByte" use="optional" />
<xs:attribute name="ServerRel" type="core:truefalse_Only_Lowercase"
    use="optional" />
<xs:attribute name="Level" type="xs:unsignedByte" use="optional" />
<xs:attribute name="Search" type="xs:string" use="optional" />
</xs:complexType>

<xs:complexType name="SPLinkCollection">
  <xs:sequence>
    <xs:element name="Link" type="SPLink"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="SPModerationStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Approved" />
    <xs:enumeration value="Denied" />
    <xs:enumeration value="Pending" />
    <xs:enumeration value="Draft" />
    <xs:enumeration value="Scheduled" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPBaseType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="GenericList" />
    <xs:enumeration value="DocumentLibrary" />
    <xs:enumeration value="DiscussionBoard" />
    <xs:enumeration value="Survey" />
    <xs:enumeration value="Issue" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPListTemplateType">
  <xs:union>
    <xs:simpleType>
      <xs:restriction base='xs:positiveInteger' />
    </xs:simpleType>
    <xs:simpleType>
      <xs:restriction base='xs:string'>
        <xs:enumeration value="GenericList" />
        <xs:enumeration value="DocumentLibrary" />
        <xs:enumeration value="Survey" />
        <xs:enumeration value="Links" />
        <xs:enumeration value="Announcements" />
        <xs:enumeration value="Contacts" />
        <xs:enumeration value="Events" />
        <xs:enumeration value="Tasks" />
        <xs:enumeration value="DiscussionBoard" />
        <xs:enumeration value="PictureLibrary" />
        <xs:enumeration value="DataSources" />
        <xs:enumeration value="WebTemplateCatalog" />
        <xs:enumeration value="UserInformation" />
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>

```

```

        <xs:enumeration value="WebPartCatalog" />
        <xs:enumeration value="ListTemplateCatalog" />
        <xs:enumeration value="SolutionCatalog" />
        <xs:enumeration value="XMLForm" />
        <xs:enumeration value="MasterPageCatalog" />
        <xs:enumeration value="NoCodeWorkflows" />
        <xs:enumeration value="WorkflowProcess" />
        <xs:enumeration value="WebPageLibrary" />
        <xs:enumeration value="CustomGrid" />
        <xs:enumeration value="DataConnectionLibrary" />
        <xs:enumeration value="WorkflowHistory" />
        <xs:enumeration value="GanttTasks" />
        <xs:enumeration value="Meetings" />
        <xs:enumeration value="Agenda" />
        <xs:enumeration value="MeetingUser" />
        <xs:enumeration value="Decision" />
        <xs:enumeration value="MeetingObjective" />
        <xs:enumeration value="TextBox" />
        <xs:enumeration value="ThingsToBring" />
        <xs:enumeration value="HomePageLibrary" />
        <xs:enumeration value="Posts" />
        <xs:enumeration value="Comments" />
        <xs:enumeration value="Categories" />
        <xs:enumeration value="IssueTracking" />
        <xs:enumeration value="AdminTasks" />
        <xs:enumeration value="ThemeCatalog" />
        <xs:enumeration value="NoCodePublic" />
        <xs:enumeration value="AssetLibrary" />
    </xs:restriction>
</xs:simpleType>
</xs:union>
</xs:simpleType>

<xs:simpleType name="DraftVisibilityType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Reader" />
        <xs:enumeration value="Author" />
        <xs:enumeration value="Approver" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPEventHostType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Site" />
        <xs:enumeration value="Web" />
        <xs:enumeration value="List" />
        <xs:enumeration value="ListItem" />
        <xs:enumeration value="ContentType" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPEventReceiverType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="ItemAdding" />
        <xs:enumeration value="ItemUpdating" />
        <xs:enumeration value="ItemDeleting" />
        <xs:enumeration value="ItemCheckingIn" />
        <xs:enumeration value="ItemCheckingOut" />
        <xs:enumeration value="ItemUncheckingOut" />
    </xs:restriction>
</xs:simpleType>

```

```
<xs:enumeration value="ItemAttachmentAdding" />
<xs:enumeration value="ItemAttachmentDeleting" />
<xs:enumeration value="ItemFileMoving" />
<xs:enumeration value="ItemVersionDeleting" />
<xs:enumeration value="FieldAdding" />
<xs:enumeration value="FieldUpdating" />
<xs:enumeration value="FieldDeleting" />
<xs:enumeration value="ListAdding" />
<xs:enumeration value="ListDeleting" />
<xs:enumeration value="SiteDeleting" />
<xs:enumeration value="WebDeleting" />
<xs:enumeration value="WebMoving" />
<xs:enumeration value="WebAdding" />
<xs:enumeration value="GroupAdding" />
<xs:enumeration value="GroupUpdating" />
<xs:enumeration value="GroupDeleting" />
<xs:enumeration value="GroupUserAdding" />
<xs:enumeration value="GroupUserDeleting" />
<xs:enumeration value="RoleDefinitionAdding" />
<xs:enumeration value="RoleDefinitionUpdating" />
<xs:enumeration value="RoleDefinitionDeleting" />
<xs:enumeration value="RoleAssignmentAdding" />
<xs:enumeration value="RoleAssignmentDeleting" />
<xs:enumeration value="InheritanceBreaking" />
<xs:enumeration value="InheritanceRestoring" />
<xs:enumeration value="ItemAdded" />
<xs:enumeration value="ItemUpdated" />
<xs:enumeration value="ItemDeleted" />
<xs:enumeration value="ItemCheckedIn" />
<xs:enumeration value="ItemCheckedOut" />
<xs:enumeration value="ItemUncheckedOut" />
<xs:enumeration value="ItemAttachmentAdded" />
<xs:enumeration value="ItemAttachmentDeleted" />
<xs:enumeration value="ItemFileMoved" />
<xs:enumeration value="ItemFileConverted" />
<xs:enumeration value="ItemVersionDeleted" />
<xs:enumeration value="FieldAdded" />
<xs:enumeration value="FieldUpdated" />
<xs:enumeration value="FieldDeleted" />
<xs:enumeration value="ListAdded" />
<xs:enumeration value="ListDeleted" />
<xs:enumeration value="SiteDeleted" />
<xs:enumeration value="WebDeleted" />
<xs:enumeration value="WebMoved" />
<xs:enumeration value="WebProvisioned" />
<xs:enumeration value="GroupAdded" />
<xs:enumeration value="GroupUpdated" />
<xs:enumeration value="GroupDeleted" />
<xs:enumeration value="GroupUserAdded" />
<xs:enumeration value="GroupUserDeleted" />
<xs:enumeration value="RoleDefinitionAdded" />
<xs:enumeration value="RoleDefinitionUpdated" />
<xs:enumeration value="RoleDefinitionDeleted" />
<xs:enumeration value="RoleAssignmentAdded" />
<xs:enumeration value="RoleAssignmentDeleted" />
<xs:enumeration value="InheritanceBroken" />
<xs:enumeration value="InheritanceRestored" />
<xs:enumeration value="EmailReceived" />
<xs:enumeration value="ContextEvent" />
```

```

    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="DefaultItemOpen">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Browser" />
    <xs:enumeration value="PreferClient" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="SPSite">
  <xs:sequence>
    <xs:element name="UserCustomActions"
      type="SPUserCustomActionCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces" />
</xs:complexType>

<xs:simpleType name="CalendarType">
  <xs:restriction base="xs:short">
    <xs:enumeration value="1" />
    <xs:enumeration value="3" />
    <xs:enumeration value="4" />
    <xs:enumeration value="5" />
    <xs:enumeration value="6" />
    <xs:enumeration value="7" />
    <xs:enumeration value="8" />
    <xs:enumeration value="9" />
    <xs:enumeration value="10" />
    <xs:enumeration value="11" />
    <xs:enumeration value="12" />
    <xs:enumeration value="14" />
    <xs:enumeration value="15" />
    <xs:enumeration value="16" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="AltCalendarType">
  <xs:restriction base="xs:short">
    <xs:enumeration value="0" />
    <xs:enumeration value="1" />
    <xs:enumeration value="3" />
    <xs:enumeration value="4" />
    <xs:enumeration value="5" />
    <xs:enumeration value="6" />
    <xs:enumeration value="7" />
    <xs:enumeration value="8" />
    <xs:enumeration value="9" />
    <xs:enumeration value="10" />
    <xs:enumeration value="11" />
    <xs:enumeration value="12" />
    <xs:enumeration value="14" />
    <xs:enumeration value="15" />
    <xs:enumeration value="16" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="WorkDayHour">

```



```

    <xs:restriction base="xs:short">
      <xs:minInclusive value="0" />
      <xs:maxInclusive value="1439" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="FirstWeekOfYear">
    <xs:restriction base="xs:short">
      <xs:enumeration value="0" />
      <xs:enumeration value="1" />
      <xs:enumeration value="2" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="FirstDayOfWeek">
    <xs:restriction base="xs:short">
      <xs:minInclusive value="0" />
      <xs:maxInclusive value="6" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="Collation">
    <xs:restriction base="xs:short">
      <xs:minInclusive value="0" />
      <xs:maxInclusive value="38" />
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="SPWeb">
    <xs:sequence>
      <xs:element name="Properties" type="Dictionary"
        minOccurs="1" maxOccurs="1"/>
      <xs:element name="SiteEventReceivers"
        type="SPEventReceiverDefinitionCollection"
        minOccurs="0" maxOccurs="1" />
      <xs:element name="EventReceivers"
        type="SPEventReceiverDefinitionCollection"
        minOccurs="0" maxOccurs="1" />
      <xs:element name="UserCustomActions"
        type="SPUserCustomActionCollection"
        minOccurs="0" maxOccurs="1" />
      <xs:element name="Resources"
        type="SPUserResourceCollection"
        minOccurs="0" maxOccurs="1" />
    </xs:sequence>
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="ParentId" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="Name" type="String128" use="optional" />
    <xs:attribute name="Title" type="String255" use="optional" />
    <xs:attribute name="Locale" type="xs:string" use="optional" />
    <xs:attribute name="Language" type="xs:unsignedInt" use="optional" />
    <xs:attribute name="IsRootWeb" type="core:truefalse_Only_Lowercase"
      use="required" />
    <xs:attribute name="ServerRelativeUrl" type="String261"
      use="required" />
    <xs:attribute name="CurrencyLocaleId" type="xs:int" use="optional" />
    <xs:attribute name="RegionalSettingsLocaleId" type="xs:unsignedInt"

```

```

        use="required" />
<xs:attribute name="RequestAccessEmail" type="String255"
        use="optional" />
<xs:attribute name="TimeZoneId" type="xs:short" use="required" />
<xs:attribute name="Time24" type="core:truefalse_Only_Lowercase"
        use="required" />
<xs:attribute name="CalendarType" type="CalendarType" use="required" />
<xs:attribute name="AdjustHijriDays" type="xs:short" use="required" />
<xs:attribute name="Collation" type="Collation" use="required" />
<xs:attribute name="AlternateCalendarType" type="AltCalendarType"
        use="required" />
<xs:attribute name="ShowWeeks" type="core:truefalse_Only_Lowercase"
        use="required" />
<xs:attribute name="FirstWeekOfYear" type="FirstWeekOfYear"
        use="required" />
<xs:attribute name="WorkDays" type="xs:short" use="required" />
<xs:attribute name="WorkDayStartHour" type="WorkDayHour"
        use="required" />
<xs:attribute name="WorkDayEndHour" type="WorkDayHour" use="required" />
<xs:attribute name="FirstDayOfWeek" type="FirstDayOfWeek" use="required" />
<xs:attribute name="Description" type="xs:string" use="required" />
<xs:attribute name="AlternateHeader" type="String260" use="optional" />
<xs:attribute name="Author" type="xs:int" use="required" />
<xs:attribute name="Configuration" type="xs:short" use="required" />
<xs:attribute name="HasUniqueRoleAssignments"
        type="core:truefalse_Only_Lowercase"
        use="optional" />
<xs:attribute name="HasUniqueRoleDefinitions"
        type="core:truefalse_Only_Lowercase"
        use="optional" />
<xs:attribute name="Created" type="xs:dateTime" use="required" />
<xs:attribute name="ThemeComposite" type="String64"
        use="required" />
<xs:attribute name="ThemedCssFolderUrl" type="xs:string" use="optional" />
<xs:attribute name="WebTemplate" type="xs:string" use="required" />
<xs:attribute name="RootFolderId"
        type="core:UniqueIdentifierWithoutBraces"
        use="required" />
<xs:attribute name="SystemCatalogsIncluded"
        type="core:truefalse_Only_Lowercase"
        use="required" />
<xs:attribute name="AlternateCssUrl" type="String260" use="required" />
<xs:attribute name="CustomizedCssFiles" type="String260"
        use="required" />
<xs:attribute name="CustomJSUrl" type="String260" use="required" />
<xs:attribute name="IncludeSupportingFolders"
        type="core:truefalse_Only_Lowercase"
        use="required" />
<xs:attribute name="SecurityProvider"
        type="core:UniqueIdentifierWithoutBraces"
        use="required" />
<xs:attribute name="MasterUrl" type="String260"
        use="required" />
<xs:attribute name="CustomMasterUrl" type="String260"
        use="required" />
<xs:attribute name="SiteLogoUrl" type="String261" use="optional" />
<xs:attribute name="SiteLogoDescription" type="String255"
        use="required" />
<xs:attribute name="UseSharedNavigation"

```

```

        type="core:truefalse_Only_Lowercase" use="optional" />
<xs:attribute name="UIVersion" type="xs:int" use="optional" />
<xs:attribute name="ClientTag" type="xs:short" use="optional" />
<xs:attribute name="IsMultilingual" type="core:truefalse_Only_Lowercase"
use="optional" />
<xs:attribute name="AlternateUICultures" type="xs:string" use="optional" />
<xs:attribute name="OverwriteTranslationsOnChange"
type="core:truefalse_Only_Lowercase"
use="optional" />
<xs:attribute name="AppInstanceId" type="core:UniqueIdentifierWithoutBraces"
use="optional" />

<!-- flags -->
<xs:attribute name="NoCrawl" type="core:truefalse_Only_Lowercase"
use="optional" />
<xs:attribute name="AllowAutomaticASPXPageIndexing"
type="core:truefalse_Only_Lowercase"
use="optional" />
<xs:attribute name="PresenceEnabled" type="core:truefalse_Only_Lowercase"
use="required" />
<xs:attribute name="SyndicationEnabled" type="core:truefalse_Only_Lowercase"
use="required" />
<xs:attribute name="QuickLaunchEnabled" type="core:truefalse_Only_Lowercase"
use="required" />
<xs:attribute name="TreeViewEnabled" type="core:truefalse_Only_Lowercase"
use="required" />
<xs:attribute name="ParserEnabled" type="core:truefalse_Only_Lowercase"
use="required" />
<xs:attribute name="Provisioned" type="core:truefalse_Only_Lowercase"
use="required" />
<xs:attribute name="CacheAllSchema" type="core:truefalse_Only_Lowercase"
use="optional" />
<xs:attribute name="UIVersionConfigurationEnabled"
type="core:truefalse_Only_Lowercase"
use="optional" />
<xs:attribute name="ExcludeFromOfflineClient"
type="core:truefalse_Only_Lowercase"
use="optional" />
<xs:attribute name="EnableMinimalDownload"
type="core:truefalse_Only_Lowercase" use="optional" />
<xs:attribute name="ASPXPageIndexMode" use="optional">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Automatic" />
      <xs:enumeration value="Always" />
      <xs:enumeration value="Never" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

<xs:complexType name="SPList">
  <xs:sequence >
    <xs:choice minOccurs="0" maxOccurs="11">
      <xs:element name="Fields" type="core:FieldDefinitions"
minOccurs="0" maxOccurs="1" />
      <xs:element name="ContentTypes" type="core:ContentTypeDatabase"
minOccurs="0" maxOccurs="1" />
      <xs:element name="Views" type="SPViewCollection"

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```

        minOccurs="0" maxOccurs="1" />
<xs:element name="Forms" type="SPFormCollection"
  minOccurs="0" maxOccurs="1" />
<xs:element name="EventReceivers"
  type="SPEventReceiverDefinitionCollection"
  minOccurs="0" maxOccurs="1" />
<xs:element name="DeletedFields" type="ListDeletedFields"
  minOccurs="0" maxOccurs="1" />
<xs:element name="DeletedViews" type="ListDeletedViews"
  minOccurs="0" maxOccurs="1" />
<xs:element name="DeletedContentTypes"
  type="ListDeletedContentTypes"
  minOccurs="0" maxOccurs="1" />
<xs:element name="UserCustomActions"
  type="SPUserCustomActionCollection"
  minOccurs="0" maxOccurs="1" />
<xs:element name="Resources" type="SPUserResourceCollection"
  minOccurs="0" maxOccurs="1" />
<xs:element name="FieldIndexes" type="SPFieldIndexCollection"
  minOccurs="0" maxOccurs="1" />
  </xs:choice>
</xs:sequence>

<xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="Title" type="String255" use="required" />
<xs:attribute name="RootFolderId"
  type="core:UniqueIdentifierWithoutBraces" />
<xs:attribute name="RootFolderUrl" type="xs:string" use="required" />
<xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="ParentWebUrl" type="xs:string" use="optional" />
<xs:attribute name="BaseType" type="SPBaseType" />
<xs:attribute name="BaseTemplate" type="SPListTemplateType"
  use="required" />
<xs:attribute name="TemplateFeatureId"
  type="core:UniqueIdentifierWithoutBraces" />
<xs:attribute name="Description" type="xs:string" use="optional" />
<xs:attribute name="Direction" type="Direction" use="optional" />
<xs:attribute name="DocumentTemplateId"
  type="core:UniqueIdentifierWithoutBraces" use="optional" />
<xs:attribute name="EventSinkAssembly" type="String255" use="optional" />
<xs:attribute name="SendToLocationName" type="xs:string" use="optional" />
<xs:attribute name="SendToLocationUrl" type="xs:string" use="optional" />
<xs:attribute name="EventSinkClass" type="String255" use="optional" />
<xs:attribute name="EventSinkData" type="String255" use="optional" />
<xs:attribute name="ImageUrl" type="String255" use="required"/>
<xs:attribute name="Flags" type="xs:unsignedLong" use="required" />
<xs:attribute name="AllowDeletion" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="AllowMultiResponses"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableAttachments"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableModeration"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableVersioning"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableMinorVersions"
  type="core:truefalse_Only_Lowercase" />

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<xs:attribute name="RequestAccessEnabled"
  type="core:truefalse_Only_Lowercase" use="optional" />
<xs:attribute name="DraftVersionVisibility" type="DraftVisibilityType" />
<xs:attribute name="ForceCheckout" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="ExcludeFromTemplate"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="ExcludeFromOfflineClient"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="Hidden" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="MultipleDataList"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="Ordered" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="ShowUser" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnablePeopleSelector"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableResourceSelector"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="NoThrottleListOperations"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="Author" type="xs:positiveInteger" use="optional" />
<xs:attribute name="Created" type="xs:dateTime" use="optional" />
<xs:attribute name="OnQuickLaunch" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="ReadSecurity" type="ReadSecurity" use="required" />
<xs:attribute name="WriteSecurity" type="WriteSecurity" use="required" />
<xs:attribute name="Version" type="xs:int" use="required" />
<xs:attribute name="MajorVersionLimit" type="xs:int" />
<xs:attribute name="MajorWithMinorVersionsLimit" type="xs:int" />
<xs:attribute name="EmailAlias" type="String128" use="optional" />
<xs:attribute name="EnableContentTypes"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="NavigateForFormsPages"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="NeedUpdateSiteClientTag"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableDeployWithDependentList"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableFolderCreation"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="DefaultItemOpen" type="DefaultItemOpen" />
<xs:attribute name="DefaultItemOpenUseListSetting"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableAssignToEmail"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnableSyndication"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="IrmEnabled" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="IrmExpire" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="IrmReject" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="NoCrawl" type="core:truefalse_Only_Lowercase" />
<xs:attribute name="EnforceDataValidation"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="PreserveEmptyValues"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="StrictTypeCoercion"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="TitleResource" type="xs:string" use="optional" />
<xs:attribute name="DescriptionResource" type="xs:string" use="optional" />
<xs:attribute name="DataSource" type="xs:string" />
<xs:attribute name="ValidationFormula" type="xs:string" />

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<xs:attribute name="ValidationMessage" type="xs:string" />
<xs:attribute name="DisableGridEditing"
  type="core:truefalse_Only_Lowercase" />
<xs:attribute name="BrowserFileHandling" type="SPBrowserFileHandling" />
<xs:attribute name="HasUniqueRoleAssignments"
  type="core:truefalse_Only_Lowercase" use="optional" />
<xs:attribute name="ReadOnlyUI"
  type="core:truefalse_Only_Lowercase" use="optional" />
</xs:complexType>

<xs:complexType name="SPViewCollection">
  <xs:sequence>
    <xs:element name="View" type="SPView"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:attributeGroup name="SPViewBaseAttributeGroup">
  <xs:attribute name="Flags" type="xs:unsignedInt" use="optional" />
  <xs:attribute name="Personal" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="Hidden" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="Threaded" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="FPModified" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="ReadOnly" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="RecurrenceRowset" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="ModerationType" use="optional">
    <xs:simpleType>
      <xs:restriction base="core:ViewModerationType">
        <xs:enumeration value="Moderator" />
        <xs:enumeration value="Contributor" />
        <xs:enumeration value="" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="OrderedView" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="Scope" type="core:ViewScope"
    use="optional" default="" />
  <xs:attribute name="DisplayName" type="String255" use="optional" />
  <xs:attribute name="BaseViewID" type="xs:int" use="optional" />
  <xs:attribute name="WebPartZoneID" type="String64" use="optional" />
  <xs:attribute name="WebPartTypeId"
    type="core:UniqueIdentifierWithOrWithoutBraces" />
  <xs:attribute name="IsIncluded" type="core:truefalse_Only_Lowercase"
    use="optional" default="true" />
  <xs:attribute name="WebPartOrder" type="xs:int" use="optional" />
  <xs:attribute name="FrameState" use="optional" >
    <xs:simpleType>
      <xs:restriction base="xs:unsignedInt">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>

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```

    </xs:attribute>
    <xs:attribute name="WebPartIdProperty" type="String255" />
</xs:attributeGroup>

<xs:complexType name="SPView">
  <xs:group ref="core:ViewDefinitionChildElementGroup"/>
  <xs:attributeGroup ref="SPViewBaseAttributeGroup"/>

  <xs:attribute name="Name" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="DefaultView" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="Type" type="core:ViewType" use="optional" />
  <xs:attribute name="MobileView" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="MobileDefaultView"
    type="core:truefalse_Only_Lowercase" use="required" />
  <xs:attribute name="DefaultViewForContentType"
    type="core:truefalse_Only_Lowercase" use="required" />
  <xs:attribute name="HackLockWeb" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="FailIfEmpty" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="FreeForm" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="FileDialog" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="AggregateView" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="IncludeRootFolder" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="IncludeVersions" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="ContentTypeID" type="core:ContentTypeId"
    use="optional" />
  <xs:attribute name="Url" type="core:RelativeUrl" use="required" />
  <xs:attribute name="FileId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="TabularView"
    type="FALSE_Case_Insensitive_Else_Anything"
    use="optional" />
</xs:complexType>

<xs:complexType name="FieldDictionaryEntry">
  <xs:attribute name="FieldId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="Value" type="xs:string" use="optional" />
  <xs:attribute name="Value2" type="xs:string" use="optional" />
</xs:complexType>

<xs:complexType name="FieldDataCollection">
  <xs:sequence>
    <xs:element name="Field" type="FieldDictionaryEntry"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPFormCollection">

```

```

    <xs:sequence>
      <xs:element name="Form" type="SPForm"
        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SPForm">
    <xs:attribute name="Name" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="Type" use="required" >
      <xs:simpleType>
        <xs:restriction base="core:FormType">
          <xs:enumeration value="DisplayForm" />
          <xs:enumeration value="EditForm" />
          <xs:enumeration value="NewForm" />
          <xs:enumeration value="" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="Url" type="core:RelativeUrl" use="required" />
    <xs:attribute name="FileId" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="Flags" type="xs:unsignedInt" use="required" />
    <xs:attribute name="WebPartIdProperty" type="String255" />
    <xs:attribute name="JSLink" type="xs:string" use="optional" />
  </xs:complexType>

  <xs:complexType name="SPEventReceiverDefinitionCollection">
    <xs:sequence>
      <xs:element name="EventReceiver" type="SPEventReceiverDefinition"
        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SPEventReceiverDefinition">
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="Name" type="String256" use="required" />
    <xs:attribute name="WebId" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="HostId" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="HostType" type="SPEventHostType" use="required" />
    <xs:attribute name="Synchronization" type="SPEventReceiverSynchronization"
      use="optional" />
    <xs:attribute name="Type" type="SPEventReceiverType" use="required" />
    <xs:attribute name="SequenceNumber" type="xs:unsignedShort"
      use="required" />
    <xs:attribute name="Url" type="String256" use="optional" />
    <xs:attribute name="Assembly" type="String256" use="optional" />
    <xs:attribute name="Class" type="String256" use="optional" />
    <xs:attribute name="SolutionId"
      type="core:UniqueIdentifierWithOrWithoutBraces"
      use="optional" />
    <xs:attribute name="Data" type="String256" use="optional" />
    <xs:attribute name="Filter" type="String256" use="optional" />
    <xs:attribute name="Credential" type="xs:int" use="required" />
    <xs:attribute name="ItemId" type="xs:int" use="optional" />
  </xs:complexType>

```



```

<xs:complexType name="ListDeletedContentTypes">
  <xs:sequence>
    <xs:element name="DeletedContentType" type="DeletedContentType"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="DeletedContentType">
  <xs:attribute name="ContentTypeId" type="core:ContentTypeId"
    use="required" />
</xs:complexType>

<xs:complexType name="DeletedField">
  <xs:attribute name="FieldId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
</xs:complexType>

<xs:complexType name="ListDeletedFields">
  <xs:sequence>
    <xs:element name="DeletedField" type="DeletedField"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPDocumentLibrary">
  <xs:complexContent>
    <xs:extension base="SPList">
      <xs:attribute name="DocumentTemplateUrl" type="String261" />
      <xs:attribute name="EmailInsertsFolder" type="String255" />
      <xs:attribute name="IsCatalog"
        type="core:truefalse_Only_Lowercase"/>
      <xs:attribute name="ThumbnailSize" type="xs:int" />
      <xs:attribute name="WebImageHeight" type="xs:int" />
      <xs:attribute name="WebImageWidth" type="xs:int" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="SPFolder">
  <xs:sequence>
    <xs:element name="Properties" type="Dictionary" minOccurs="0" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Name" type="xs:string" />
  <xs:attribute name="Url" type="xs:string" use="required" />
  <xs:attribute name="ParentFolderId"
    type="core:UniqueIdentifierWithoutBraces" use="required" />
  <xs:attribute name="ParentWebId"
    type="core:UniqueIdentifierWithoutBraces" use="required" />
  <xs:attribute name="ParentWebUrl" type="xs:string" use="optional" />
  <xs:attribute name="ContainingDocumentLibrary"
    type="core:UniqueIdentifierWithoutBraces" use="optional" />
  <xs:attribute name="WelcomePageUrl" type="xs:string" use="optional" />
  <xs:attribute name="ListItemIntId" type="xs:int" use="optional" />
  <xs:attribute name="ModifiedBy" type="xs:string" use="optional" />
  <xs:attribute name="TimeCreated" type="xs:dateTime" use="optional" />
  <xs:attribute name="TimeLastModified" type="xs:dateTime" use="optional" />

```

```

<xs:attribute name="ProgId" type="xs:string" use="optional" />
<xs:attribute name="SortBehavior" use="optional">
  <xs:simpleType>
    <xs:restriction base="xs:int">
      <xs:minInclusive value="0" />
      <xs:maxInclusive value="2" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

<xs:complexType name="SPWebPartCollection">
  <xs:sequence>
    <xs:element name="WebPart" type="SPWebPart"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPWebPart">
  <xs:group ref="core:ViewDefinitionChildElementGroup"/>
  <xs:attributeGroup ref="SPViewBaseAttributeGroup"/>

  <xs:attribute name="Name" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="UserId" type="xs:int" use="optional" />
  <xs:attribute name="ListId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="ListRootFolderUrl" type="core:RelativeUrl"
    use="optional" />
  <xs:attribute name="Version" type="xs:int" use="optional" />
  <xs:attribute name="AllUsersProperties" type="xs:base64Binary"
    use="optional" />
  <xs:attribute name="PerUserProperties" type="xs:base64Binary"
    use="optional" />
  <xs:attribute name="Source" type="xs:string" use="optional" />
  <xs:attribute name="ContentTypeId" type="core:ContentTypeId"
    use="optional" />
  <xs:attribute name="Assembly" type="xs:string" use="optional" />
  <xs:attribute name="Class" type="xs:string" use="optional" />
  <xs:attribute name="SolutionId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="Type" use="optional">
    <xs:simpleType>
      <xs:restriction base="xs:int">
        <xs:minInclusive value="-1" />
        <xs:maxInclusive value="10" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Level" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="major" />
        <xs:enumeration value="minor" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

```

```

<xs:complexType name="SPPersonalizationCollection">
  <xs:sequence>
    <xs:element name="Personalization" type="SPPersonalization"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPPersonalization">
  <xs:attribute name="UserId" type="xs:int" use="required" />
  <xs:attribute name="WebPartId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="WebPartOrder" type="xs:int" use="optional" />
  <xs:attribute name="WebPartZoneId" type="String64" use="optional" />
  <xs:attribute name="IsIncluded" type="core:TRUEFALSE" use="required" />
  <xs:attribute name="FrameState" use="required" >
    <xs:simpleType>
      <xs:restriction base="xs:unsignedByte">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="UserProperties" type="xs:base64Binary"
    use="optional" />
</xs:complexType>

<xs:complexType name="SPFeature">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required"/>
  <xs:attribute name="WebId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="Properties" type="xs:string" use="optional" />
  <xs:attribute name="FeatureDefinitionName" type="xs:string"
    use="required" />
  <xs:attribute name="Version" type="FeatureVersion"
    use="optional" default="0.0.0.0"/>
  <xs:attribute name="IsUserSolutionFeature"
    type="core:truefalse_Only_Lowercase" use="optional" />
  <xs:attribute name="FeatureDefinitionScope" use="optional" >
    <xs:simpleType>
      <xs:restriction base="xs:int">
        <xs:minInclusive value="0" />
        <xs:maxInclusive value="3" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

<xs:simpleType name="FeatureVersion">
  <xs:restriction base="xs:string">
    <xs:pattern value="\d+\.\d+\.\d+\.\d+" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="SPFileVersionCollection">
  <xs:sequence>
    <xs:element name="File" type="SPFile"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>

```

```

</xs:complexType>

<xs:complexType name="SPListItemVersionCollection">
  <xs:sequence>
    <xs:element name="ListItem" type="SPListItemVersion"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPFile">
  <xs:sequence>
    <xs:element name="Properties" type="Dictionary" minOccurs="0" />
    <xs:element name="Versions" type="SPFileVersionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="WebParts" type="SPWebPartCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Personalizations" type="SPPersonalizationCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Links" type="SPLinkCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Url" type="xs:string" use="required" />
  <xs:attribute name="ListItemIntId" type="xs:int" use="optional" />
  <xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ParentWebUrl" type="xs:string" use="optional" />
  <xs:attribute name="ParentId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="ListId" type="core:UniqueIdentifierWithoutBraces"
    use="optional" />
  <xs:attribute name="FileValue" type="PackageFileName" use="optional" />
  <xs:attribute name="CheckinComment" type="xs:string" use="optional" />
  <xs:attribute name="Version" type="VersionString"
    use="optional" default="1.0" />
  <xs:attribute name="Author" type="xs:int" use="optional" />
  <xs:attribute name="ModifiedBy" type="xs:int" use="optional" />
  <xs:attribute name="TimeCreated" type="xs:dateTime" use="optional" />
  <xs:attribute name="TimeLastModified" type="xs:dateTime" use="optional" />
  <xs:attribute name="FailureMessage" type="xs:string" use="optional" />
  <xs:attribute name="IsGhosed" type="core:truefalse_Only_Lowercase"
    use="optional" />
  <xs:attribute name="SetupPath" type="core:RelativeFilePath"
    use="optional" />
  <xs:attribute name="SetupPathUser" type="xs:int" use="optional" />
  <xs:attribute name="SetupPathVersion" type="xs:byte" default="4" />
</xs:complexType>

<xs:simpleType name="ListItemDocType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="File" />
    <xs:enumeration value="Folder" />
  </xs:restriction>
</xs:simpleType>

<xs:attributeGroup name="SPListItemBaseAttributeGroup">
  <xs:attribute name="Name" type="xs:string" use="required" />

```

```

<xs:attribute name="DirName" type="xs:string" use="optional" />
<xs:attribute name="Version" type="VersionString"
  use="optional" default="1.0" />
<xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="IntId" type="xs:int" use="required" />
<xs:attribute name="Author" type="xs:int" use="optional" />
<xs:attribute name="ModifiedBy" type="xs:int" use="optional" />
<xs:attribute name="TimeCreated" type="xs:dateTime" use="optional" />
<xs:attribute name="TimeLastModified" type="xs:dateTime" use="optional" />
<xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="ParentListId" type="core:UniqueIdentifierWithoutBraces"
  use="required" />
<xs:attribute name="ModerationStatus" type="SPModerationStatusType"
  use="optional" />
<xs:attribute name="ContentTypeId" type="xs:string" use="optional" />
<xs:attribute name="ThreadIndex" type="xs:string" use="optional" />
<xs:attribute name="DocType" type="ListItemDocType" default="File" />
<xs:attribute name="UserLoginName" type="xs:string" use="optional" />
<xs:attribute name="GroupName" type="xs:string" use="optional" />
<xs:attribute name="FailureMessage" type="xs:string" use="optional" />
</xs:attributeGroup>

<xs:complexType name="SPListItem">
  <xs:sequence>
    <xs:element name="Fields" type="FieldDataCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Versions" type="SPListItemVersionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Attachments" type="SPAttachmentCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Links" type="SPLinkCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="EventReceivers"
      type="SPEventReceiverDefinitionCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>

  <xs:attribute name="FileUrl" type="xs:string" use="required" />
  <xs:attribute name="DocId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ParentFolderId"
    type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="ProgId" type="xs:string" use="optional" />
  <xs:attribute name="Order" type="xs:float" use="optional" />
  <xs:attribute name="UserSolutionActivated" use="optional">
    <xs:simpleType>
      <xs:restriction base="xs:short">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
        <xs:enumeration value="2" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>

  <xs:attributeGroup ref="SPListItemBaseAttributeGroup"/>
</xs:complexType>

```

```

<xs:complexType name="SPListItemVersion">
  <xs:sequence>
    <xs:element name="Fields" type="FieldDataCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Attachments" type="SPAttachmentCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Links" type="SPLinkCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
  <xs:attributeGroup ref="SPListItemBaseAttributeGroup"/>
</xs:complexType>

<xs:complexType name="SPContentType">
  <xs:all>
    <xs:element name="Folder" type="core:FolderReference"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="FieldRefs" type="FieldReferenceDefinitions"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Fields" type="core:FieldDefinitions"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="XmlDocuments"
      type="core:XmlDocumentDefinitionCollection"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="DocumentTemplate"
      type="core:ContentTypeDocumentTemplateDefinition"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="EventReceivers"
      type="SPEventReceiverDefinitionCollection"
      minOccurs="0" maxOccurs="1" />
  </xs:all>
  <xs:attribute name="ID" type="core:ContentTypeId" use="required" />
  <xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required"/>
  <xs:attribute name="ListId" type="core:UniqueIdentifierWithoutBraces"
    use="optional"/>
  <xs:attribute name="Name" type="xs:string" use="optional" default=""/>
  <xs:attribute name="Group" type="xs:string" use="optional" default=""/>
  <xs:attribute name="Description" type="xs:string"
    use="optional" default=""/>
  <xs:attribute name="NewDocumentControl" type="xs:string"
    use="optional" default=""/>
  <xs:attribute name="RequireClientRenderingOnNew" type="core:TRUEFALSE"
    use="optional" default="TRUE"/>
  <xs:attribute name="Scope" type="xs:string" />
  <xs:attribute name="NextChildByte" type="xs:short" />
  <xs:attribute name="ReadOnly" type="core:TRUE_Case_Sensitive_Else_Anything"
    use="optional" default="false"/>
  <xs:attribute name="Locs">
    <xs:simpleType>
      <xs:restriction base="xs:boolean">
        <xs:pattern value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Hidden" type="core:TRUE_Case_Sensitive_Else_Anything"
    use="optional" default="false"/>
  <xs:attribute name="Sealed" type="core:TRUE_Case_Sensitive_Else_Anything"
    use="optional" default="false"/>

```

```

    <xs:attribute name="Version" type="xs:nonNegativeInteger"
        use="optional" default="0"/>
    <xs:attribute name="FeatureId" type="core:UniqueIdentifierWithBraces"/>
</xs:complexType>

<xs:complexType name="SPContentTypeFolder">
    <xs:attribute name="TargetName" type="xs:string" />

    <xs:anyAttribute namespace="##any" processContents="skip" />
</xs:complexType>

<xs:complexType name="DeploymentWebStructure">
    <xs:sequence>
        <xs:element name="Data">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="Structure">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element name="Element"
                                    type="DeploymentWebStructureElement"
                                    minOccurs="0"
                                    maxOccurs="unbounded" />
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>
    <xs:attribute name="WebId" type="core:UniqueIdentifierWithoutBraces"
        use="required" />
    <xs:attribute name="WebUrl" type="xs:string" use="required" />
    <xs:attribute name="UseSharedNavigation"
        type="core:truefalse_Only_Lowercase"
        use="optional" default="false" />
</xs:complexType>

<xs:complexType name="DeploymentWebStructureElement">
    <xs:sequence>
        <xs:element name="MetaInfo" minOccurs="0" type="MetaDictionary" />
        <xs:element name="Element" type="DeploymentWebStructureElement"
            minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="Id" type="xs:int"
        use="required" />
    <xs:attribute name="DateTimeParented" type="xs:string"
        use="required" />
    <xs:attribute name="Type" use="required">
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="Page" />
                <xs:enumeration value="Link" />
                <xs:enumeration value="DynamicPage" />
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="Name" type="String256"
        use="required" />

```

```

<xs:attribute name="NameResource" use="required">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="520"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="Url" type="xs:string"
  use="required" />
</xs:complexType>

<xs:complexType name="MetaDictionary">
  <xs:sequence>
    <xs:element name="MetaKey" minOccurs="0" maxOccurs="unbounded">
      <xs:complexType>
        <xs:attribute name="Name" type="xs:string" />
        <xs:attribute name="Value" type="xs:string" />
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="DeploymentFieldTemplate">
  <xs:sequence>
    <xs:element name="Field" type="core:FieldDefinition"
      minOccurs="1" maxOccurs="1" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="ParentWebId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Scope" type="core:RelativeUrl" use="required" />
  <xs:attribute name="Description" type="xs:string" use="required" />
  <xs:attribute name="Group" type="xs:string" use="required" />
  <xs:attribute name="PushChangesToList" type="core:truefalse_Only_Lowercase"
    use="optional" />
</xs:complexType>

<xs:simpleType name="StringNonEmpty">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="String64">
  <xs:restriction base="xs:string">
    <xs:maxLength value="64"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="String128">
  <xs:restriction base="xs:string">
    <xs:maxLength value="128"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="String255">
  <xs:restriction base="xs:string">

```



```

        <xs:maxLength value="255"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="String255NonEmpty">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
        <xs:maxLength value="255"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="String256">
    <xs:restriction base="xs:string">
        <xs:maxLength value="256"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="String260">
    <xs:restriction base="xs:string">
        <xs:maxLength value="260"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="String261">
    <xs:restriction base="xs:string">
        <xs:maxLength value="261"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="String512">
    <xs:restriction base="xs:string">
        <xs:maxLength value="512"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="OnlyFalse">
    <xs:restriction base="xs:string">
        <xs:enumeration value="false" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="VersionString">
    <xs:restriction base="xs:string">
        <xs:pattern value="\d+\.\d+"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="Direction">
    <xs:restriction base="xs:string">
        <xs:enumeration value="none" />
        <xs:enumeration value="ltr" />
        <xs:enumeration value="rtl" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ReadSecurity">
    <xs:restriction base="xs:int">
        <xs:enumeration value="1" />
        <xs:enumeration value="2" />
    </xs:restriction>
</xs:simpleType>

```

```

    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="WriteSecurity">
  <xs:restriction base="xs:int">
    <xs:enumeration value="1" />
    <xs:enumeration value="2" />
    <xs:enumeration value="4" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="PackageFileName">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="255"/>
    <xs:pattern value="[a-zA-F\d]{8}.dat"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="FieldReferenceDefinitions">
  <xs:sequence>
    <xs:element name="FieldRef" type="core:FieldRefDefinitionCT"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPFieldIndexCollection">
  <xs:sequence>
    <xs:element name="Index" type="SPFieldIndex"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPFieldIndexColumn">
  <xs:attribute name="ID" type="core:UniqueIdentifierWithBraces"
    use="required" />
</xs:complexType>

<xs:complexType name="SPFieldIndex">
  <xs:sequence>
    <xs:element name="FieldRef" type="SPFieldIndexColumn"
      minOccurs="2" maxOccurs="2" />
  </xs:sequence>
  <xs:attribute name="ID" type="core:UniqueIdentifierWithBraces"
    use="required" />
</xs:complexType>

<xs:complexType name="SPUserResourceValues">
  <xs:attribute name="Language" type="xs:int" use="required" />
  <xs:attribute name="Dirty" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:boolean">
        <xs:pattern value="0|1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="Value" type="xs:string" use="required" />
</xs:complexType>

```

```

<xs:complexType name="SPUserResourceDefinition">
  <xs:sequence>
    <xs:element name="Data" type="SPUserResourceValues"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
  <xs:attribute name="Name" type="xs:string" use="required" />
  <xs:attribute name="Type" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:short">
        <xs:enumeration value="0" />
        <xs:enumeration value="1" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

<xs:complexType name="SPUserResourceCollection">
  <xs:sequence>
    <xs:element name="Resource" type="SPUserResourceDefinition"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPUserCustomActionCollection">
  <xs:sequence>
    <xs:element name="UserCustomAction"
      type="SPUserCustomActionDefinition"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPUserCustomActionDefinition">
  <xs:sequence>
    <xs:any minOccurs="1" maxOccurs="2"
      namespace="##any" processContents="skip" />
  </xs:sequence>
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Version" type="xs:string" use="required" />
</xs:complexType>

<xs:simpleType name="SPBrowserFileHandling">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Permissive" />
    <xs:enumeration value="Strict" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPEventReceiverSynchronization">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Default" />
    <xs:enumeration value="Synchronous" />
    <xs:enumeration value="Asynchronous" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="ListDeletedViews">
  <xs:sequence>
    <xs:element name="DeletedView" type="DeletedView"

```

```

        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="DeletedView">
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
        use="required" />
</xs:complexType>

<xs:element name="SPObjects" type="SPGenericObjectCollection" />

</xs:schema>

```

5.2 ExportSettings.xml Schema

This XML schema includes the XML schema described in [\[MS-WSSCAML\]](#) section 2.5.1.22.1, replacing the `http://schemas.microsoft.com/sharepoint/soap` namespace in the schema with `urn:deployment-exportsettings-schema`.

```

<?xml version="1.0" encoding="utf-8" ?>

<xs:schema
    targetNamespace="urn:deployment-exportsettings-schema"
    elementFormDefault="qualified"
    xmlns="urn:deployment-exportsettings-schema"
    xmlns:mstns="urn:deployment-exportsettings-schema"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:core="urn:deployment-exportsettings-schema">

    <xs:include
        id="WSS"
        schemaLocation="wsswire_DeploymentExportSettings.xsd" />

    <xs:simpleType name="SPIncludeDescendants">
        <xs:restriction base="xs:string">
            <xs:enumeration value="Content" />
            <xs:enumeration value="All" />
        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="SPIncludeSecurity">
        <xs:restriction base="xs:string">
            <xs:enumeration value="None" />
            <xs:enumeration value="WssOnly" />
            <xs:enumeration value="All" />
        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="SPIncludeVersions">
        <xs:restriction base="xs:string">
            <xs:enumeration value="LastMajor" />
            <xs:enumeration value="CurrentVersion" />
            <xs:enumeration value="LastMajorAndMinor" />
            <xs:enumeration value="All" />
        </xs:restriction>
    </xs:simpleType>

```

```

</xs:simpleType>

<xs:simpleType name="SPExportMethodType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ExportAll" />
    <xs:enumeration value="ExportChanges" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SPExportChangeToken">
  <xs:restriction base="xs:string">
    <xs:pattern value="\d+;\d+;[0-9a-fA-F]{8}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{4}\-[0-9a-fA-F]{12};\d+;\d+"/>
    <xs:maxLength value="120"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="SPExportObjectCollection">
  <xs:sequence>
    <xs:element
      name="DeploymentObject" type="SPExportObject"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SPExportObject">
  <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Type" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Site" />
        <xs:enumeration value="Web" />
        <xs:enumeration value="ListItem" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="ParentId" type="core:UniqueIdentifierWithoutBraces"
    use="required" />
  <xs:attribute name="Url" type="xs:string"
    use="optional" />
  <xs:attribute name="ExcludeChildren" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="IncludeDescendants" type="SPIncludeDescendants"
    use="required" />
  <xs:attribute name="ExportChangeToken" type="SPExportChangeToken"
    use="optional" />
</xs:complexType>

<xs:complexType name="SPExportSettings">
  <xs:sequence>
    <xs:element name="ExportObjects" type="SPExportObjectCollection" />
  </xs:sequence>
  <xs:attribute name="SiteUrl" type="xs:string" use="required" />
  <xs:attribute name="FileLocation" type="xs:string" use="required" />
  <xs:attribute name="BaseFileName" type="xs:string" use="required" />
  <xs:attribute name="IncludeSecurity" type="SPIncludeSecurity"
    use="required" />
  <xs:attribute name="IncludeVersions" type="SPIncludeVersions"

```

```

        use="required" />
<xs:attribute name="ExportMethod" type="SPExportMethodType"
        use="required" />
<xs:attribute name="ExportPublicSchema" fixed="true" use="required" />
<xs:attribute name="ExcludeDependencies"
        type="core:truefalse_Only_Lowercase" use="required" />
<xs:attribute name="ExportFrontEndFileStreams"
        type="core:truefalse_Only_Lowercase" default="true" />
</xs:complexType>

<xs:element name="ExportSettings" type="SPExportSettings" />

</xs:schema>

```

5.3 LookupListMap.xml Schema

This XML schema includes the XML schema described in [\[MS-WSSCAML\]](#) section 2.5.1.22.1, replacing the `http://schemas.microsoft.com/sharepoint/soap` namespace in the schema with `urn:deployment-lookuplistmap-schema`.

```

<?xml version="1.0" encoding="utf-8" ?>

<xs:schema
    targetNamespace="urn:deployment-lookuplistmap-schema"
    elementFormDefault="qualified"
    xmlns="urn:deployment-lookuplistmap-schema"
    xmlns:mstns="urn:deployment-lookuplistmap-schema"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:core="urn:deployment-lookuplistmap-schema">

    <xs:include
        id="WSS"
        schemaLocation="wsswire_DeploymentLookupListMap.xsd" />

    <xs:complexType name="SPLookupItem">
        <xs:attribute name="Id" type="xs:int" use="required" />
        <xs:attribute name="DocId" type="core:UniqueIdentifierWithoutBraces"
            use="required" />
        <xs:attribute name="Url" type="xs:string" use="required" />
        <xs:attribute name="Included" type="core:truefalse_Only_Lowercase"
            use="required" />
    </xs:complexType>

    <xs:complexType name="SPLookupItems">
        <xs:sequence>
            <xs:element name="LookupItem" type="SPLookupItem"
                minOccurs="0" maxOccurs="unbounded" />
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="SPLookupList">
        <xs:sequence>
            <xs:element name="LookupItems" type="SPLookupItems"
                minOccurs="0" maxOccurs="unbounded" />
        </xs:sequence>
    </xs:complexType>

```

```

    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
        use="required" />
    <xs:attribute name="Url" type="xs:string" use="required" />
    <xs:attribute name="Included" type="core:truefalse_Only_Lowercase"
        use="required" />
</xs:complexType>

<xs:complexType name="SPLookupLists">
    <xs:sequence>
        <xs:element name="LookupList" type="SPLookupList"
            minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:element name="LookupLists" type="SPLookupLists" />

</xs:schema>

```

5.4 Requirements.xml Schema

This XML schema includes the XML schema described in [\[MS-WSSCAML\]](#) section 2.5.1.22.1, replacing the `http://schemas.microsoft.com/sharepoint/soap` namespace in the schema with `urn:deployment-requirements-schema`.

```

<?xml version="1.0" encoding="utf-8" ?>

<xs:schema
    targetNamespace="urn:deployment-requirements-schema"
    elementFormDefault="qualified"
    xmlns="urn:deployment-requirements-schema"
    xmlns:mstns="urn:deployment-requirements-schema"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:core="urn:deployment-requirements-schema">

    <xs:include
        id="WSS"
        schemaLocation="wsswire_DeploymentRequirements.xsd" />

    <xs:simpleType name="SPRequirementObjectType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="FeatureDefinition" />
            <xs:enumeration value="WebTemplate" />
            <xs:enumeration value="WebPart" />
            <xs:enumeration value="Language" />
        </xs:restriction>
    </xs:simpleType>

    <xs:complexType name="SPImportRequirements">
        <xs:sequence>
            <xs:element name="Requirement" type="SPRequirement"
                minOccurs="0" maxOccurs="unbounded" />
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="SPRequirement">
        <xs:attribute name="Type" type="SPRequirementObjectType" />

```

```

    <xs:attribute name="Id" type="xs:string" use="required" />
    <xs:attribute name="Name" type="xs:string" use="required" />
    <xs:attribute name="Data" type="xs:string" use="optional" />
</xs:complexType>

<xs:element name="Requirements" type="SPImportRequirements" />

</xs:schema>

```

5.5 RootObjectMap.xml Schema

This XML schema includes the XML schema described in [\[MS-WSSCAML\]](#) section 2.5.1.22.1, replacing the `http://schemas.microsoft.com/sharepoint/soap` namespace in the schema with `urn:deployment-rootobjectmap-schema`.

```

<?xml version="1.0" encoding="utf-8" ?>

<xs:schema
  targetNamespace="urn:deployment-rootobjectmap-schema"
  elementFormDefault="qualified"
  xmlns="urn:deployment-rootobjectmap-schema"
  xmlns:mstns="urn:deployment-rootobjectmap-schema"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:core="urn:deployment-rootobjectmap-schema">

  <xs:include
    id="WSS"
    schemaLocation="wswire_DeploymentRootObjectMap.xsd" />

  <xs:simpleType name="SPDeploymentObjectType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Web" />
      <xs:enumeration value="ListItem" />
      <xs:enumeration value="File" />
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="SPRootObject">
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="Type" type="SPDeploymentObjectType" use="required" />
    <xs:attribute name="ParentId" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="WebUrl" type="xs:string" use="required" />
    <xs:attribute name="Url" type="xs:string" use="required" />
    <xs:attribute name="IsDependency" type="core:truefalse_Only_Lowercase"
      use="required" />
  </xs:complexType>

  <xs:complexType name="SPRootObjects">
    <xs:sequence>
      <xs:element
        name="RootObject" type="SPRootObject"
        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

```



```

<xs:element name="RootObjects" type="SPRootObjects" />

</xs:schema>

```

5.6 SystemData.xml Schema

This XML schema includes the XML schema described in [\[MS-WSSCAML\]](#) section 2.5.1.22.1, replacing the <http://schemas.microsoft.com/sharepoint/soap> namespace in the schema with <urn:deployment-systemdata-schema>.

```

<?xml version="1.0" encoding="utf-8" ?>

<xs:schema
  targetNamespace="urn:deployment-systemdata-schema"
  elementFormDefault="qualified"
  xmlns="urn:deployment-systemdata-schema"
  xmlns:mstns="urn:deployment-systemdata-schema"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:core="urn:deployment-systemdata-schema">

  <xs:include
    id="WSS"
    schemaLocation="wsswire_DeploymentSystemData.xsd" />

  <xs:complexType name="SPSchemaVersion">
    <xs:attribute name="Version" type="xs:string" use="required"/>
    <xs:attribute name="Build" type="BuildVersion" use="required" />
    <xs:attribute name="DatabaseVersion" type="xs:nonNegativeInteger"
      use="required" />
    <xs:attribute name="SiteVersion" type="xs:string" use="required" />
    <xs:attribute name="ObjectsProcessed" type="xs:int" />
  </xs:complexType>

  <xs:complexType name="SPManifestFiles">
    <xs:sequence>
      <xs:element name="ManifestFile" type="SPManifestFile"
        minOccurs="1" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SPSystemObjects">
    <xs:sequence>
      <xs:element name="SystemObject" type="SPSystemObject"
        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SPSystemObject">
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="Type" use="required" >
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="Web" />
          <xs:enumeration value="Folder" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>

```

```

        <xs:enumeration value="List" />
        <xs:enumeration value="ListItem" />
        <xs:enumeration value="File" />
    </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="Url" type="xs:string" use="required" />
</xs:complexType>

<xs:complexType name="SPManifestFile">
    <xs:attribute name="Name" type="xs:string" use="required" />
</xs:complexType>

<xs:complexType name="SPSystemData">
    <xs:sequence>
        <xs:element name="SchemaVersion" type="SPSchemaVersion"
            minOccurs="1" maxOccurs="1" />
        <xs:element name="ManifestFiles" type="SPManifestFiles"
            minOccurs="1" maxOccurs="1" />
        <xs:element name="SystemObjects" type="SPSystemObjects"
            minOccurs="1" maxOccurs="1" />
        <xs:element name="RootWebOnlyLists" type="SPRootWebOnlyLists"
            minOccurs="0" maxOccurs="1" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="SPList">
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces" />
</xs:complexType>

<xs:complexType name="SPRootWebOnlyLists">
    <xs:sequence>
        <xs:element name="List" type="SPRootWebOnlyList"
            minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="SPRootWebOnlyList">
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
        use="required" />
</xs:complexType>

<xs:simpleType name="BuildVersion">
    <xs:restriction base="xs:string">
        <xs:pattern value="\d+.\d+.\d+.\d+" />
    </xs:restriction>
</xs:simpleType>

<xs:element name="SystemData" type="SPSystemData" />

</xs:schema>

```

5.7 UserGroup.xml Schema

This XML schema includes the XML schema described in [\[MS-WSSCAML\]](#) section 2.5.1.22.1, replacing the `http://schemas.microsoft.com/sharepoint/soap` namespace in the schema with `urn:deployment-usergroupmap-schema`.

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

<xs:schema
  targetNamespace="urn:deployment-usergroupmap-schema"
  elementFormDefault="qualified"
  xmlns="urn:deployment-usergroupmap-schema"
  xmlns:mstns="urn:deployment-usergroupmap-schema"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:core="urn:deployment-usergroupmap-schema">

  <xs:include
    id="WSS"
    schemaLocation="wsswire_DeploymentUserGroupMap.xsd" />

  <xs:simpleType name="String255">
    <xs:restriction base="xs:string">
      <xs:maxLength value="255"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="String255NonEmpty">
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="255"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="String512">
    <xs:restriction base="xs:string">
      <xs:maxLength value="512"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="DeploymentUser">
    <xs:attribute name="Id" type="xs:int" use="required" />
    <xs:attribute name="Name" type="String255NonEmpty" use="required" />
    <xs:attribute name="Login" type="String255NonEmpty" use="required" />
    <xs:attribute name="Email" type="String255" use="optional" />
    <xs:attribute name="IsDomainGroup" type="core:truefalse_Only_Lowercase"
      use="optional" default="false" />
    <xs:attribute name="IsSiteAdmin" type="core:truefalse_Only_Lowercase"
      use="optional" default="false" />
    <xs:attribute name="SystemId" type="xs:base64Binary" use="required" />
    <xs:attribute name="IsDeleted" type="core:truefalse_Only_Lowercase"
      use="required" />
    <xs:attribute name="MobilePhone" type="xs:string" use="optional" />
    <xs:attribute name="Flags" type="xs:int" use="optional" />
  </xs:complexType>

  <xs:complexType name="DeploymentUsers">
    <xs:sequence>
      <xs:element name="User" type="DeploymentUser"
        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

```

```

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

<xs:complexType name="DeploymentGroupMember">
  <xs:attribute name="UserId" type="xs:int" use="required" />
</xs:complexType>

<xs:complexType name="DeploymentGroup">
  <xs:sequence>
    <xs:element name="Member" type="DeploymentGroupMember"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
  <xs:attribute name="Id" type="xs:int" use="required" />
  <xs:attribute name="Name" type="String255NonEmpty" use="required" />
  <xs:attribute name="Owner" type="xs:int" use="required" />
  <xs:attribute name="OwnerIsUser" type="core:truefalse_Only_Lowercase"
    use="required" />
  <xs:attribute name="Description" type="String512" use="optional" />
  <xs:attribute name="OnlyAllowMembersViewMembership"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AllowMembersEditMembership"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AllowRequestToJoinLeave"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="AutoAcceptRequestToJoinLeave"
    type="core:truefalse_Only_Lowercase"
    use="optional" default="false" />
  <xs:attribute name="RequestToJoinLeaveEmailSetting"
    type="String255" use="optional" />
</xs:complexType>

<xs:complexType name="DeploymentGroups">
  <xs:sequence>
    <xs:element name="Group" type="DeploymentGroup"
      minOccurs="0" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="DeploymentUserGroupMap">
  <xs:sequence>
    <xs:element name="Users" type="DeploymentUsers"
      minOccurs="0" maxOccurs="1" />
    <xs:element name="Groups" type="DeploymentGroups"
      minOccurs="0" maxOccurs="1" />
  </xs:sequence>
</xs:complexType>

<xs:element name="UserGroupMap" type="DeploymentUserGroupMap" />

</xs:schema>

```

5.8 ViewFormsList.xml Schema

This XML schema includes the XML schema described in [\[MS-WSSCAML\]](#) section 2.5.1.22.1, replacing the `http://schemas.microsoft.com/sharepoint/soap` namespace in the schema with `urn:deployment-viewformlist-schema`.

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

<xs:schema
  targetNamespace="urn:deployment-viewformlist-schema"
  elementFormDefault="qualified"
  xmlns="urn:deployment-viewformlist-schema"
  xmlns:mstns="urn:deployment-viewformlist-schema"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:core="urn:deployment-viewformlist-schema">

  <xs:include
    id="WSS"
    schemaLocation="wswire_DeploymentViewFormsList.xsd" />

  <xs:complexType name="SPViewFormsList">
    <xs:sequence>
      <xs:element name="ViewForm" type="SPViewForm"
        minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="SPViewForm">
    <xs:attribute name="Id" type="core:UniqueIdentifierWithoutBraces"
      use="required" />
    <xs:attribute name="Type" use="required" >
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="View" />
          <xs:enumeration value="Forms" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>

  <xs:element name="ViewFormsList" type="SPViewFormsList" />

</xs: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 SharePoint Foundation 2010
- Microsoft Office SharePoint Server 2007
- Windows SharePoint Services 3.0
- Microsoft SharePoint Foundation 2013

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.

[<1> Section 2.1.2.1:](#) This type has been added in SharePoint Foundation 2010.

[<2> Section 2.1.2.2.1:](#) For Windows SharePoint Services 3.0, see [\[MS-WSSFO\]](#) section 2.2.8.3.3 instead.

[<3> Section 2.1.2.3:](#) This type has been added in SharePoint Foundation 2010.

[<4> Section 2.1.2.5.1:](#) This value has been added in SharePoint Foundation 2010.

[<5> Section 2.1.2.5.2:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.8.3.3 instead.

[<6> Section 2.1.2.7.1:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.2.13 instead.

[<7> Section 2.1.2.8.1:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.2.13 instead.

[<8> Section 2.1.2.10.1:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.2.13 instead.

[<9> Section 2.1.2.12.1:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.2.13 instead.

[<10> Section 2.1.2.13.1:](#) This attribute has been added in SharePoint Foundation 2010

[<11> Section 2.1.2.13.1:](#) This attribute has been added in SharePoint Foundation 2010

[<12> Section 2.1.2.15.1:](#) This attribute has been added in SharePoint Foundation 2010.

[<13> Section 2.1.2.19.1:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.8.3.3 instead.

[<14> Section 2.1.2.21:](#) This type has been added in SharePoint Foundation 2010.

- [<15> Section 2.1.2.23:](#) This type has been added in SharePoint Foundation 2010.
- [<16> Section 2.1.2.27.1:](#) This attribute has been added in SharePoint Foundation 2010.
- [<17> Section 2.1.2.28.1:](#) In Windows SharePoint Services 2.0, this specifies a URL of the directory on the configured e-mail inserts server that is inspected for new e-mail messages to be processed for this document library. This functionality was deprecated in Windows SharePoint Services 3.0. However the attribute may be present for upgraded instances.
- [<18> Section 2.1.2.28.1:](#) This attribute has been added in SharePoint Foundation 2010.
- [<19> Section 2.1.2.28.1:](#) This attribute has been added in SharePoint Foundation 2010.
- [<20> Section 2.1.2.28.1:](#) This attribute has been added in SharePoint Foundation 2010.
- [<21> Section 2.1.2.29.1:](#) In Windows SharePoint Services 3.0, `HostType=ListItem` will never appear in deployment package (1).
- [<22> Section 2.1.2.29.1:](#) The following values have been added in SharePoint Foundation 2013: `ItemVersionDeleting`, `GroupAdding`, `GroupUpdating`, `GroupDeleting`, `GroupUserAdding`, `GroupUserDeleting`, `RoleDefinitionAdding`, `RoleDefinitionUpdating`, `RoleDefinitionDeleting`, `RoleAssignmentAdding`, `RoleAssignmentDeleting`, `InheritanceBreaking`, `InheritanceRestoring`, `ItemVersionDeleted`, `GroupAdded`, `GroupUpdated`, `GroupDeleted`, `GroupUserAdded`, `GroupUserDeleted`, `RoleDefinitionAdded`, `RoleDefinitionUpdated`, `RoleDefinitionDeleted`, `RoleAssignmentAdded`, `RoleAssignmentDeleted`, `InheritanceBroken`, and `InheritanceRestored`.
- [<23> Section 2.1.2.29.1:](#) This value has been added in SharePoint Foundation 2010.
- [<24> Section 2.1.2.29.1:](#) This value has been added in SharePoint Foundation 2010.
- [<25> Section 2.1.2.29.1:](#) This value has been added in SharePoint Foundation 2010.
- [<26> Section 2.1.2.29.1:](#) This value has been added in SharePoint Foundation 2010.
- [<27> Section 2.1.2.29.1:](#) This value has been added in SharePoint Foundation 2010.
- [<28> Section 2.1.2.29.1:](#) This value has been added in SharePoint Foundation 2010.
- [<29> Section 2.1.2.29.1:](#) This attribute has been added in SharePoint Foundation 2013.
- [<30> Section 2.1.2.29.1:](#) This attribute has been added in SharePoint Foundation 2010.
- [<31> Section 2.1.2.29.1:](#) This attribute has been added in SharePoint Foundation 2010.
- [<32> Section 2.1.2.31.1:](#) This attribute has been added in SharePoint Foundation 2013.
- [<33> Section 2.1.2.31.1:](#) This attribute has been added in SharePoint Foundation 2010.
- [<34> Section 2.1.2.31.1:](#) This attribute has been added in SharePoint Foundation 2010.
- [<35> Section 2.1.2.32:](#) This type has been added in SharePoint Foundation 2010.
- [<36> Section 2.1.2.33:](#) This type has been added in SharePoint Foundation 2010.
- [<37> Section 2.1.2.34:](#) This type has been added in SharePoint Foundation 2010.
- [<38> Section 2.1.2.35.1:](#) For Windows SharePoint Services 3.0, the default value is 3.
- [<39> Section 2.1.2.37.1:](#) This attribute has been added in SharePoint Foundation 2010.

- <40> [Section 2.1.2.37.1](#): This attribute has been added in SharePoint Foundation 2010.
- <41> [Section 2.1.2.38.1](#): For Windows SharePoint Services 3.0, see [\[MS-WSSFO\]](#) section 2.2.2.11 instead.
- <42> [Section 2.1.2.38.1](#): This attribute has been added in SharePoint Foundation 2010.
- <43> [Section 2.1.2.38.1](#): This attribute has been added in SharePoint Foundation 2013.
- <44> [Section 2.1.2.40.1](#): This attribute has been added in SharePoint Foundation 2010.
- <45> [Section 2.1.2.42.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.10 instead.
- <46> [Section 2.1.2.42.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.9 instead.
- <47> [Section 2.1.2.42.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.8 instead.
- <48> [Section 2.1.2.44.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.8.3.3 instead.
- <49> [Section 2.1.2.44.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.12 instead.
- <50> [Section 2.1.2.44.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.12 instead.
- <51> [Section 2.1.2.44.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.12 instead.
- <52> [Section 2.1.2.44.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.12 instead.
- <53> [Section 2.1.2.44.1](#): This list (1) Flag bit was added in SharePoint Foundation 2010.
- <54> [Section 2.1.2.44.1](#): This list (1) Flag bit was added in SharePoint Foundation 2010.
- <55> [Section 2.1.2.44.1](#): This list (1) Flag bit was added in SharePoint Foundation 2010.
- <56> [Section 2.1.2.44.1](#): This list (1) Flag bit was added in SharePoint Foundation 2010.
- <57> [Section 2.1.2.44.1](#): This list (1) Flag bit was added in SharePoint Foundation 2010.
- <58> [Section 2.1.2.44.1](#): This list (1) Flag bit was added in SharePoint Foundation 2010.
- <59> [Section 2.1.2.44.1](#): This list (1) Flag bit was added in SharePoint Foundation 2010.
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[<69> Section 2.1.2.44.1:](#) This list (1) Flag bit was added in SharePoint Foundation 2013.

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[<71> Section 2.1.2.44.1:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.8.3.3 instead.

[<72> Section 2.1.2.44.1:](#) This attribute has been added in SharePoint Foundation 2010.

[<73> Section 2.1.2.44.1:](#) This attribute has been added in SharePoint Foundation 2010.

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<99> [Section 2.1.2.51](#): This type has been added in SharePoint Foundation 2010.

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<102> [Section 2.1.2.54](#): This type has been added in SharePoint Foundation 2010.

<103> [Section 2.1.2.55](#): This type has been added in SharePoint Foundation 2010.

<104> [Section 2.1.2.56.1](#): This attribute has been added in SharePoint Foundation 2010.

<105> [Section 2.1.2.58.1](#): For Windows SharePoint Services 3.0 value MUST be one of the time zone identifiers as specified in [\[MS-WSSFO\]](#) section 2.2.3.17.

<106> [Section 2.1.2.58.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.3 instead.

<107> [Section 2.1.2.58.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.4 instead.

<108> [Section 2.1.2.58.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.3 instead.

<109> [Section 2.1.2.58.1](#): For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.2.12 instead.

<110> [Section 2.1.2.58.1](#): This attribute has been added in SharePoint Foundation 2010.

<111> [Section 2.1.2.58.1](#): This attribute has been added in SharePoint Foundation 2010.

<112> [Section 2.1.2.58.1](#): This attribute has been added in SharePoint Foundation 2010.

<113> [Section 2.1.2.58.1](#): This attribute has been added in SharePoint Foundation 2010. Value 3 corresponds to the user interface of Windows SharePoint Services 3.0 and value 4 corresponds to the user interface of SharePoint Foundation 2010.

<114> [Section 2.1.2.58.1](#): This attribute has been added in SharePoint Foundation 2010.

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[<125> Section 2.1.2.59.1:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.14 instead.

[<126> Section 2.1.2.59.1:](#) This attribute has been added in SharePoint Foundation 2010.

[<127> Section 2.1.2.59.1:](#) This attribute has been added in SharePoint Foundation 2010.

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[<129> Section 2.1.3.2.1:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.2.11 instead.

[<130> Section 2.1.3.2.1:](#) This attribute has been added in SharePoint Foundation 2010.

[<131> Section 2.1.4.3:](#) This type has been added in SharePoint Foundation 2010.

[<132> Section 2.1.4.6:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.2.13 instead.

[<133> Section 2.1.4.8:](#) This value has been added in SharePoint Foundation 2010.

[<134> Section 2.1.4.8:](#) This value has been added in SharePoint Foundation 2010.

[<135> Section 2.1.4.10:](#) The type SPBrowserFileHandling and its values have been added in SharePoint Foundation 2010

[<136> Section 2.1.4.11:](#) The type SPEventReceiverSynchronization and its values have been added in SharePoint Foundation 2010.

[<137> Section 2.1.4.12:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.3.12 instead.

[<138> Section 2.1.4.12:](#) This enumeration value has been added in SharePoint Foundation 2010.

[<139> Section 2.1.4.12:](#) This enumeration value has been added in SharePoint Foundation 2010.

[<140> Section 2.1.4.12:](#) This enumeration value has been added in SharePoint Foundation 2010.

[<141> Section 2.1.4.12:](#) This enumeration value has been added in SharePoint Foundation 2010.

[<142> Section 2.1.4.26:](#) For Windows SharePoint Services 3.0 refer to [\[MS-WSSFO\]](#) section 2.2.2.13 instead.

[<143> Section 2.2.2.1.1:](#) In some cases, Windows SharePoint Services 3.0 does set this to the Id of the parent deployment object.

[<144> Section 2.2.2.3.1:](#) Windows SharePoint Services 3.0 uses the folder path that was used when generating the deployment package (1).

[<145> Section 2.2.2.3.1:](#) Windows SharePoint Services 3.0 uses the file name that was used when generating the deployment package (1).

[<146> Section 2.2.2.3.1:](#) This attribute has been added in SharePoint Foundation 2010.

[<147> Section 2.6.2.3.1:](#) The value MUST be 12.0.10.0 for Windows SharePoint Services 3.0 and MUST be 14.0.0.0 for SharePoint Foundation 2010.

[<148> Section 2.6.2.3.1:](#) Windows SharePoint Services 3.0 and SharePoint Foundation 2010 uses the version of the software module used to perform the export operation. This MUST be ignored for Windows SharePoint Services 3.0.

[<149> Section 2.6.2.3.1:](#) Windows SharePoint Services 3.0 uses the timestamp of the content database.

[<150> Section 2.6.2.3.1:](#) This attribute has been added in SharePoint Foundation 2010.

[<151> Section 2.6.2.4.1:](#) This element has been added in SharePoint Foundation 2010.

[<152> Section 2.6.2.7:](#) This type has been added in SharePoint Foundation 2010.

[<153> Section 2.6.2.8:](#) This type has been added in SharePoint Foundation 2010.

[<154> Section 2.7.2.3.1:](#) This attribute has been added in SharePoint Foundation 2010.

[<155> Section 2.7.2.3.1:](#) This attribute has been added in SharePoint Foundation 2010.

7 Change Tracking

This section identifies changes that were made to the [MS-PRIMEPF] protocol document between the October 2012 and February 2013 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

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 or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

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 **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|--|---|-----------------------|------------------|
| 3.2 ExportSettings.xml | Removed redundant quotation marks. | N | Content updated. |
| 3.7 UserGroup.xml | Deleted the redundant quotation mark. | N | Content updated. |

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