

[MS-OWEMXML]: Office Web Extensibility Manifest Format

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1 Introduction

The Office Web Extensibility Manifest Format specifies the schema for **apps for Office** manifest files.

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 [\[MS-GLOS\]](#):

GUID
universally unique identifier (UUID)
XML

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

app for Office
contact
content app
culture name
dictionary
docked
document
endpoint
Hypertext Markup Language (HTML)
localization
mail app
manifest
Office Web Extension
task pane app
Uniform Resource Locator (URL)
Uniform Resource Name (URN)

The following terms are specific to this document:

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 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.

[MS-OXCMSG] Microsoft Corporation, "[Message and Attachment Object Protocol](#)".

[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>

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

[XMLSCHEMA2] Biron, P.V., 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

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

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

1.3 Overview

The structures specified in this format provide an **XML** vocabulary for apps for Office **manifest** files. The elements and attributes specified in this format enable the implementer to provide the information required to enable implementations of the apps for Office Framework to activate apps for Office.

The XML vocabulary is ordered around a base definition of an app for Office with syntax extensions specific to each of three extension types (section [1.3.1](#), section [1.3.2](#) and section [1.3.3](#))

The following sections provide an overview of the functionality supported by these extensions.

1.3.1 Task Pane Apps

Task pane apps provide the implementer with a Task Pane user interface with fixed initial width that is **docked** in the task pane area. Additional elements enable the implementer to specify extension source location **Uniform Resource Locator (URL)** by **culture names** for the extension's start page; to create apps for Office that extend **dictionary** functionality if implemented in the **document** host; and to indicate the capabilities requested by the extension.

1.3.2 Content Apps

Content apps provide the implementer with a user interface with a specifiable initial height and width that appears within the content of the document. Additional elements enable the implementer to specify extension source location Uniform Resource Locator (URL) by culture names for the source locations for the extension's start page; and to indicate the capabilities requested by the extension.

1.3.3 Mail Apps

Mail apps for Office provide the implementer with a user interface that has specifiable initial height that is sensitive to the form factor being used by the user. Additional elements enable the implementer to specify content-based activation rules; implementer to specify extension source location Uniform Resource Locator (URL) by culture names for the source locations for the extension's start page; and to indicate the capabilities requested by the extension.

1.4 Relationship to Protocols and Other Structures

None.

1.5 Applicability Statement

This document specifies the schema used by apps for Office manifest files. These files are not persisted into documents and as such are independent of application file formats. Manifest files are created by implementers and distributed through apps for Office catalogs.

1.6 Versioning and Localization

The apps for Office manifest file supports versioning and **localization** through explicit definition using pre-defined schema elements.

Versioning information is explicitly specified through the **Version** element in the **OfficeApp** type documented in section [2.2.21](#).

Localization information may be specified for any element that is defined with the **LocaleAwareSetting** type, documented in section [2.2.5](#) and throughout this document.

1.7 Vendor-Extensible Fields

None.

2 Structures

2.1 Global Elements

2.1.1 OfficeApp

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

OfficeApp is the root element in the manifest of an app for Office. Its **type** is the **OfficeApp** (section [2.2.21](#)) complex type, which is an abstract type. The following complex types, inherited from the **OfficeApp** complex type, are used as the actual type for the **OfficeApp** root element:

- **ContentApp** complex type, as specified in section [2.2.24](#).
- **TaskPaneApp** complex type, as specified in section [2.2.29](#).
- **MailApp** complex type, as specified in section [2.2.32](#).

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

```
<xs:element name="OfficeApp" type="OfficeApp"/>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2 Complex Types

2.2.1 LocaleOverride

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [LocaleAwareSetting](#)

Defines the support for multiple locales for unbounded strings.

Attributes:

Locale: A **CultureName** attribute (section [2.3.7](#)) that specifies the culture name of the locale for the override.

Value: A **NonEmptyString** attribute (section [2.3.1](#)) that specifies the value of the setting expressed for the specified locale.

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

```
<xs:complexType name="LocaleOverride">  
  <xs:attribute name="Locale" type="CultureName" use="required"/>  
  <xs:attribute name="Value" type="NonEmptyString" use="required"/>  
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.2 ShortLocaleOverride

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ShortLocaleAwareSetting](#)

Specifies the support for multiple locales for short strings.

Attributes:

Locale: A **CultureName** attribute (section [2.3.7](#)) that specifies the culture name of the locale for the override.

Value: A **ShortString** attribute (section [2.3.2](#)) that specifies the value of the setting expressed for the specified locale.

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

```
<xs:complexType name="ShortLocaleOverride">
  <xs:attribute name="Locale" type="CultureName" use="required"/>
  <xs:attribute name="Value" type="ShortString" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.3 LongLocaleOverride

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [LongLocaleAwareSetting](#)

Specifies the support for multiple locales for long strings.

Attributes:

Locale: A **CultureName** attribute (section [2.3.7](#)) that specifies the culture name of the locale for the override.

Value: A **LongString** attribute (section [2.3.3](#)) that specifies the value of the setting expressed for the specified locale.

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

```
<xs:complexType name="LongLocaleOverride">
  <xs:attribute name="Locale" type="CultureName" use="required"/>
  <xs:attribute name="Value" type="LongString" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.4 URLLocaleOverride

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [URLLocaleAwareSetting](#)

Specifies the support for multiple locales for URL strings.

Attributes:

Locale: A **CultureName** attribute (section [2.3.7](#)) that specifies the culture name of the locale for the override.

Value: A **URL** attribute (section [2.3.4](#)) that specifies the value of the setting expressed for the specified locale.

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

```
<xs:complexType name="URLLocaleOverride">
  <xs:attribute name="Locale" type="CultureName" use="required"/>
  <xs:attribute name="Value" type="URL" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.5 LocaleAwareSetting

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Defines a setting that is unbounded, and that can be specified for a locale different than the default.

Child Elements:

Override: A **LocaleOverride** element (section [2.2.1](#)) that provides a way to specify the value of this setting for an additional locale.

Attributes:

DefaultValue: A **NonEmptyString** attribute (section [2.3.1](#)) that specifies the default value for this setting, expressed for the locale specified in the **DefaultLocale** element (section [2.2.21](#)).

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

```
<xs:complexType name="LocaleAwareSetting">
  <xs:sequence>
    <xs:element name="Override" type="LocaleOverride" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="DefaultValue" type="NonEmptyString" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.6 ShortLocaleAwareSetting

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [OfficeApp](#), [ContentApp](#), [Dictionary](#), [TaskPaneApp](#), [MailApp](#)

Specifies a **ShortString** (section [2.3.2](#)) that is locale-aware, and that can be specified for a locale different than the default.

Child Elements:

Override: A **ShortLocaleOverride** element (section [2.2.2](#)) that specifies the value of **ShortLocaleAwareSetting** for an additional locale.

Attributes:

DefaultValue: A **ShortString** attribute (section [2.3.2](#)) that specifies the default value for this setting for the locale culture name that is specified in the **DefaultLocale** child element of **OfficeApp** (section [2.2.21](#)).

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

```
<xs:complexType name="ShortLocaleAwareSetting">
  <xs:sequence>
    <xs:element name="Override" type="ShortLocaleOverride" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="DefaultValue" type="ShortString" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.7 LongLocaleAwareSetting

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [OfficeApp](#), [ContentApp](#), [TaskPaneApp](#), [MailApp](#)

Specifies a **LongString** (section [2.3.3](#)) that is locale-aware, and that can be specified for a locale different than the default.

Child Elements:

Override: A **LongLocaleOverride** element (section [2.2.3](#)) that specifies the value of **LongLocaleAwareSetting** for an additional locale.

Attributes:

DefaultValue: A **LongString** attribute (section [2.3.3](#)) that that specifies the default value for this setting for the locale culture name that is specified in the **DefaultLocale** child element of **OfficeApp** (section [2.2.21](#)).

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

```
<xs:complexType name="LongLocaleAwareSetting">
  <xs:sequence>
    <xs:element name="Override" type="LongLocaleOverride" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="DefaultValue" type="LongString" use="required"/>
</xs:complexType>
```

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

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.8 URLLocaleAwareSetting

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ContentAppSettings](#), [TaskPaneAppSettings](#), [DesktopMailAppSettings](#), [TabletMailAppSettings](#), [PhoneMailAppSettings](#), [OfficeApp](#), [ContentApp](#), [Dictionary](#), [TaskPaneApp](#), [MailApp](#)

Specifies a Uniform Resource Locator (URL) setting that is locale-aware and that can be specified for a locale different than the default.

Child Elements:

Override: A **URLLocaleOverride** (section [2.2.4](#)) element that specifies the value of **URLLocaleAwareSetting** for an additional locale.

Attributes:

DefaultValue: A **URL** (section [2.3.4](#)) attribute that specifies the default value for this setting for the locale culture name that is specified in the **DefaultLocale** child element of **OfficeApp** (section [2.2.21](#))

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

```
<xs:complexType name="URLLocaleAwareSetting">
  <xs:sequence>
    <xs:element name="Override" type="URLLocaleOverride" minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="DefaultValue" type="URL" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.9 ContentAppSettings

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ContentApp](#)

This element defines the settings applicable to a content app.

Child Elements:

SourceLocation: A **URLLocaleAwareSetting** (section [2.2.8](#)) element that specifies the list of source file locations for this content app.

RequestedWidth: An **ST_RequestedWidth** (section [2.3.9](#)) element that specifies the desired width in pixels for the initial content placeholder. This value **MUST** be between 32 and 1000 pixels.

RequestedHeight: An **ST_RequestedHeight** (section [2.3.10](#)) element that specifies the desired height in pixels for the initial content placeholder. This value **MUST** be between 21 and 1000 pixels.

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

```
<xs:complexType name="ContentAppSettings">
  <xs:sequence>
    <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="RequestedWidth" minOccurs="0" maxOccurs="1"
type="ver:ST_RequestedWidth"/>
    <xs:element name="RequestedHeight" minOccurs="0" maxOccurs="1"
type="ver:ST_RequestedHeight"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.10 TaskPaneAppSettings

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [TaskPaneApp](#)

Specifies the settings applicable to a task pane app.

Child Elements:

SourceLocation: A **URLLocaleAwareSetting** (section [2.2.8](#)) element that specifies the list of source file locations for this task pane app.

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

```
<xs:complexType name="TaskPaneAppSettings">
  <xs:sequence>
    <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.11 DesktopMailAppSettings

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [MailApp](#)

Elements of this type contain the settings applicable to mail apps when running on a non-tablet device..

Child Elements:

SourceLocation: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the source file location for this desktop mail app.

RequestedHeight: An **ST_RequestedHeight1** element (section [2.3.11](#)) that specifies the desired height, in pixels, of the display area for this mail app when running on a desktop computer.

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

```
<xs:complexType name="DesktopMailAppSettings">
  <xs:sequence>
    <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="RequestedHeight" minOccurs="1" maxOccurs="1"
type="ver:ST_RequestedHeight1"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.12 TabletMailAppSettings

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [MailApp](#)

Elements of this type contain the settings applicable to mail apps when running on a tablet computer.

Child Elements:

SourceLocation: An **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the source file location for this tablet mail app.

RequestedHeight: An **ST_RequestedHeight2** element (section [2.3.12](#)) that specifies the desired height, in pixels, of the display area for this mail app when running on a tablet computer.

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

```
<xs:complexType name="TabletMailAppSettings">
  <xs:sequence>
    <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="RequestedHeight" minOccurs="1" maxOccurs="1"
type="ver:ST_RequestedHeight2"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.13 PhoneMailAppSettings

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [MailApp](#)

Elements of this type contain the settings applicable to mail apps when running on a smartphone.

Child Elements:

SourceLocation: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the source file location for this phone mail app.

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

```
<xs:complexType name="PhoneMailAppSettings">
  <xs:sequence>
    <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.14 Rule

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ItemIs](#), [ItemHasKnownEntity](#), [ItemHasRegularExpressionMatch](#), [ItemHasAttachment](#), [RuleCollection](#), [MailApp](#)

An abstract type that specifies a base type for complex types that specify the conditions for the host application to activate the Mail app.

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

```
<xs:complexType name="Rule" abstract="true"/>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.15 ItemIs

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Elements of this type define a rule that evaluates to true if the selected item is of the specified type.

Attributes:

ItemType: An **ItemType** attribute (section [2.3.13](#)) that specifies the item type to match.

ItemClass: A **NonEmptyString** attribute (section [2.3.1](#)) that specifies the item message class ([\[MS-OXCMSG\]](#)) to match.

IncludeSubClasses: A **boolean** attribute ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the rule evaluates to true if the item is of a subclass of the specified message class. An item is considered a subclass of the specified message class if its message class begins with the value in the **ItemClass** attribute, followed by a period (".") and additional text. The default value is false.

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

```
<xs:complexType name="ItemIs">
  <xs:complexContent>
    <xs:extension base="Rule">
      <xs:attribute name="ItemType" type="ItemType" use="required"/>
      <xs:attribute name="ItemClass" type="NonEmptyString" use="optional"/>
      <xs:attribute name="IncludeSubClasses" type="xs:boolean" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.16 ItemHasKnownEntity

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Elements of this type define a rule that evaluates to true if the item contains text of the specified entity type in its subject or body.

Attributes:

EntityType: A **KnownEntityType** attribute (section [2.3.14](#)) that specifies the type of entity that MUST be found for the rule to evaluate to true.

RegexFilter: A **NonEmptyString** attribute (section [2.3.1](#)) that specifies a regular expression to evaluate against the entity. If the evaluation results in a match, then the rule evaluates to true. If it does not result in a match, the rule evaluates to false.

FilterName: A **NonEmptyString** attribute (section [2.3.1](#)) that specifies the name of the regular expression filter contained in the **RegexFilter** attribute.

IgnoreCase: A **boolean** attribute ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether case is ignored when evaluating the regular expression specified by the **RegexFilter** attribute.

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

```
<xs:complexType name="ItemHasKnownEntity">
  <xs:complexContent>
    <xs:extension base="Rule">
      <xs:attribute name="EntityType" type="KnownEntityType" use="required"/>
      <xs:attribute name="RegexFilter" type="NonEmptyString" use="optional"/>
      <xs:attribute name="FilterName" type="NonEmptyString" use="optional"/>
      <xs:attribute name="IgnoreCase" type="xs:boolean" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.17 ItemHasRegularExpressionMatch

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Specifies a rule that evaluates to true if a match for the specified regular expression can be found in the specified property of an item.

Attributes:

RegexName: A **NonEmptyString** attribute (section [2.3.1](#)) that specifies the name of the regular expression, so that it is subsequently possible to refer to it programmatically.

RegexValue: A **NonEmptyString** attribute (section [2.3.1](#)) that specifies the regular expression to match.

PropertyName: A **PropertyName** attribute (section [2.3.15](#)) that specifies the name of the property in which to look for the regular expression matches.

IgnoreCase: A **boolean** attribute ([\[XMLSCHEMA2\]](#) section 3.2.2) that, if true, specifies to ignore the case when applying the regular expression.

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

```
<xs:complexType name="ItemHasRegularExpressionMatch">
  <xs:complexContent>
    <xs:extension base="Rule">
      <xs:attribute name="RegexName" type="NonEmptyString" use="required"/>
      <xs:attribute name="RegexValue" type="NonEmptyString" use="required"/>
      <xs:attribute name="PropertyName" type="PropertyName" use="required"/>
      <xs:attribute name="IgnoreCase" type="xs:boolean" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.18 ItemHasAttachment

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Specifies a rule that evaluates to true if the item contains an attachment.

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

```
<xs:complexType name="ItemHasAttachment">
  <xs:complexContent>
    <xs:extension base="Rule"/>
  </xs:complexContent>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.19 RuleCollection

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Specifies a collection of rules and the logical operator to use when evaluating them.

Child Elements:

Rule: A **Rule** element (section [2.2.14](#)) that specifies the list of rules that this collection contains.

Attributes:

Mode: A **LogicalOperator** attribute (section [2.3.16](#)) that specifies the logical operator to use when evaluating this rule collection.

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

```
<xs:complexType name="RuleCollection">
  <xs:complexContent>
    <xs:extension base="Rule">
      <xs:sequence>
        <xs:element name="Rule" type="Rule" minOccurs="1" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="Mode" type="LogicalOperator" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.20 AppDomains

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [OfficeApp](#), [ContentApp](#), [TaskPaneApp](#), [MailApp](#)

Specifies additional domains that the app for Office uses to load its pages.

Child Elements:

AppDomain: A **LongString** element (section [2.3.3](#)) that specifies a domain that will be used to load one or more app for Office pages.

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

```
<xs:complexType name="AppDomains">
  <xs:sequence minOccurs="1" maxOccurs="unbounded">
    <xs:element name="AppDomain" type="LongString"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.21 OfficeApp

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ContentApp](#), [TaskPaneApp](#), [MailApp](#), [OfficeApp](#)

Specifies an abstract type that defines an app for Office.

Child Elements:

Id: A **UUID** element (section [2.3.5](#)) that specifies a unique identifier for the app for Office.

AlternateId: An **AlternateId** element (section [2.3.6](#)) that specifies an alternate identifier for the app for Office.

Version: A **Version** element (section [2.3.8](#)) that specifies the version of the app for Office.

ProviderName: A **ShortString** element (section [2.3.2](#)) that specifies the name of the individual or company that developed the app for Office.

DefaultLocale: A **CultureName** element (section [2.3.7](#)) that specifies the culture name of the locale used by default by strings in the app for Office manifest.

DisplayName: A **ShortLocaleAwareSetting** element (section [2.2.6](#)) that specifies a short name for the app for Office.

Description: A **LongLocaleAwareSetting** element (section [2.2.7](#)) that specifies a verbose description of the app for Office.

IconUrl: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the Uniform Resource Locator (URL) of the image that is used to represent the app for Office.

SupportUrl: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the URL of a page that provides support information for the app for Office.

AppDomains: An **AppDomains** element (section [2.2.20](#)) that specifies additional domains that this app for Office will use to load pages.

VersionOverrides: An element that specifies elements for use in future versions of the app for Office platform. These elements MAY be overrides to previously defined elements or new elements.

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

```
<xs:complexType name="OfficeApp" abstract="true">
  <xs:sequence>
    <xs:element name="Id" type="UUID" minOccurs="1" maxOccurs="1"/>
    <xs:element name="AlternateId" type="AlternateId" minOccurs="0" maxOccurs="1"/>
    <xs:element name="Version" type="Version" minOccurs="1" maxOccurs="1"/>
    <xs:element name="ProviderName" type="ShortString" minOccurs="1" maxOccurs="1"/>
    <xs:element name="DefaultLocale" type="CultureName" minOccurs="1" maxOccurs="1"/>
    <xs:element name="DisplayName" type="ShortLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="Description" type="LongLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="IconUrl" type="URLLocaleAwareSetting" minOccurs="0" maxOccurs="1"/>
    <xs:element name="SupportUrl" type="URLLocaleAwareSetting" minOccurs="0" maxOccurs="1"/>
    <xs:element name="AppDomains" type="AppDomains" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

```
<xs:element name="VersionOverrides"
  xmlns="http://schemas.microsoft.com/office/versionoverrides/1.0" minOccurs="0"
  maxOccurs="1"/>
</xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.22 ContentAppCapability

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [CT_Capabilities](#)

Specifies the capabilities supported by a content app.

Attributes:

Name: A **ContentAppCapabilities** attribute (section [2.3.17](#)) that specifies a capability supported by the content app type.

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

```
<xs:complexType name="ContentAppCapability">
  <xs:attribute name="Name" type="ContentAppCapabilities" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.23 CT_Capabilities

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ContentApp](#)

Specifies up to three capabilities supported by the content app.

Child Elements:

Capability: A **ContentAppCapability** element (section [2.2.22](#)) that specifies a required capability.

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

```
<xs:complexType name="CT_Capabilities">
  <xs:sequence>
    <xs:element name="Capability" type="ContentAppCapability" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.24 ContentApp

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

This element defines a content app that is placed in-line with document content to provide a richer web-based experience.

Child Elements:

Id: A **UUID** element (section [2.3.5](#)) that specifies a unique identifier for the app for Office.

AlternateId: An **AlternateId** element (section [2.3.6](#)) that specifies an alternate identifier for the app for Office.

Version: A **Version** element (section [2.3.8](#)) that specifies the version of the app for Office.

ProviderName: A **ShortString** element (section [2.3.2](#)) that specifies the name of the individual or company that developed the app for Office.

DefaultLocale: A **CultureName** element (section [2.3.7](#)) that specifies the culture name of the locale used by default by strings in the app for Office manifest.

DisplayName: A **ShortLocaleAwareSetting** element (section [2.2.6](#)) that specifies a short name for the app for Office.

Description: A **LongLocaleAwareSetting** element (section [2.2.7](#)) that specifies a verbose description of the app for Office.

IconUrl: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the Uniform Resource Locator (URL) of the image that is used to represent the app for Office.

SupportUrl: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the URL of a page that provides support information for the app for Office.

AppDomains: An **AppDomains** element (section [2.2.20](#)) that specifies additional domains that this app for Office will use to load pages.

VersionOverrides: An element that specifies elements for use in future versions of the app for Office platform. These elements MAY be overrides to previously defined elements or new elements.

Capabilities: A **CT_Capabilities** element (section [2.2.23](#)) that specifies the capabilities that are required by this content app; the host application will look for at least one match before activating the app.

DefaultSettings: A **ContentAppSettings** element (section [2.2.9](#)) that specifies control settings that are applied whenever this content app is used.

Permissions: An **ST_Permissions** element (section [2.3.18](#)) that specifies the subset of the API that MAY be available to this content app at runtime. The application developer permissions are based on a least privilege.

AllowSnapshot: A **boolean** element ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether a snapshot image of this content app is saved when the hosting document is saved.

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

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

```

<xs:complexContent>
  <xs:extension base="OfficeApp">
    <xs:sequence>
      <xs:element name="Capabilities" minOccurs="1" maxOccurs="1"
type="ver:CT_Capabilities"/>
      <xs:element name="DefaultSettings" type="ContentAppSettings" minOccurs="1"
maxOccurs="1"/>
      <xs:element name="Permissions" minOccurs="1" maxOccurs="1"
type="ver:ST_Permissions"/>
      <xs:element name="AllowSnapshot" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
      <xs:any id="ContentAppSignature" minOccurs="0" maxOccurs="1"
namespace="http://www.w3.org/2000/09/xmldsig#" processContents="lax"/>
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.25 Dictionary

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [TaskPaneApp](#)

Defines settings for an app that implements additional dictionary support.

Child Elements:

TargetDialects: A **TargetDialects** element (section [2.2.26](#)) that specifies the dialects supported by the dictionary.

QueryUri: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the URL of the **endpoint (4)** for the dictionary query service.

CitationText: A **ShortLocaleAwareSetting** element (section [2.2.6](#)) that specifies the citation boilerplate text for the dictionary.

DictionaryName: A **ShortLocaleAwareSetting** element (section [2.2.6](#)) that specifies the name of this dictionary.

DictionaryHomePage: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the URL of the home page for the dictionary.

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

```

<xs:complexType name="Dictionary">
  <xs:sequence>
    <xs:element name="TargetDialects" type="TargetDialects" minOccurs="1" maxOccurs="1"/>
    <xs:element name="QueryUri" type="URLLocaleAwareSetting" minOccurs="1" maxOccurs="1"/>
    <xs:element name="CitationText" type="ShortLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="DictionaryName" type="ShortLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="DictionaryHomePage" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>

```

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

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.26 TargetDialects

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [Dictionary](#)

Specifies the dialect(s) supported by **Dictionary** (section [2.2.25](#)).

Child Elements:

TargetDialect: A **CultureName** element (section [2.3.7](#)) that specifies a dialect supported by this **Dictionary** (section [2.2.25](#)), represented as a culture name string.

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

```
<xs:complexType name="TargetDialects">
  <xs:sequence minOccurs="1" maxOccurs="unbounded">
    <xs:element name="TargetDialect" type="CultureName"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.27 TaskPaneAppCapability

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [CT_Capabilities1](#)

Specifies the capabilities supported by a task pane app.

Attributes:

Name: A **TaskPaneAppCapabilities** attribute (section [2.3.19](#)) that specifies a capability supported by the task pane app type.

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

```
<xs:complexType name="TaskPaneAppCapability">
  <xs:attribute name="Name" type="TaskPaneAppCapabilities" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.28 CT_Capabilities1

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [TaskPaneApp](#)

Specifies up to four capabilities supported by a task pane app

Child Elements:

Capability: A **TaskPaneAppCapability** element (section [2.2.27](#)) that specifies a required capability.

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

```
<xs:complexType name="CT_Capabilities1">
  <xs:sequence>
    <xs:element name="Capability" type="TaskPaneAppCapability" minOccurs="1" maxOccurs="4"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.29 TaskPaneApp

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Specifies an app for Office that is displayed in a task pane to enhance the viewing and authoring experience.

Child Elements:

Id: A **UUID** element (section [2.3.5](#)) that specifies a unique identifier for the app for Office.

AlternateId: An **AlternateId** element (section [2.3.6](#)) that specifies an alternate identifier for the app for Office.

Version: A **Version** element (section [2.3.8](#)) that specifies the version of the app for Office.

ProviderName: A **ShortString** element (section [2.3.2](#)) that specifies the name of the individual or company that developed the app for Office.

DefaultLocale: A **CultureName** element (section [2.3.7](#)) that specifies the culture name of the locale used by default by strings in the app for Office manifest.

DisplayName: A **ShortLocaleAwareSetting** element (section [2.2.6](#)) that specifies a short name for the app for Office.

Description: A **LongLocaleAwareSetting** element (section [2.2.7](#)) that specifies a verbose description of the app for Office.

IconUrl: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the Uniform Resource Locator (URL) of the image that is used to represent the app for Office.

SupportUrl: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the URL of a page that provides support information for the app for Office.

AppDomains: An **AppDomains** element (section [2.2.20](#)) that specifies additional domains that this app for Office will use to load pages.

VersionOverrides: An element that specifies elements for use in future versions of the app for Office platform. These elements MAY be overrides to previously defined elements or new elements.

Capabilities: A **CT_Capabilities1** element (section [2.2.28](#)) that specifies the capabilities that are required by this task pane app; the host application will look for at least one match before activating the task pane app.

DefaultSettings: A **TaskPaneAppSettings** element (section [2.2.10](#)) that specifies control settings that are applied whenever this task pane app is used.

Permissions: An **ST_Permissions1** element (section [2.3.20](#)) that specifies the subset of the API that are available to this task pane app at runtime; the application developer has permissions based on least privilege.

Dictionary: A **Dictionary** element (section [2.2.25](#)) that specifies control settings that apply to a task pane app that implements additional dictionary support.

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

```
<xs:complexType name="TaskPaneApp">
  <xs:complexContent>
    <xs:extension base="OfficeApp">
      <xs:sequence>
        <xs:element name="Capabilities" minOccurs="1" maxOccurs="1"
type="ver:CT_Capabilities1"/>
        <xs:element name="DefaultSettings" type="TaskPaneAppSettings" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Permissions" minOccurs="1" maxOccurs="1"
type="ver:ST_Permissions1"/>
        <xs:element name="Dictionary" type="Dictionary" minOccurs="0" maxOccurs="1"/>
        <xs:any id="TaskPaneAppSignature" minOccurs="0" maxOccurs="1"
namespace="http://www.w3.org/2000/09/xmlsig#" processContents="lax"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.30 MailAppCapability

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [CT_Capabilities2](#)

Elements of this type specify the capabilities supported by a mail app.

Attributes:

Name: A **MailAppCapabilities** attribute (section [2.3.21](#)) that specifies capability supported by the mail app.

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

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

```
<xs:attribute name="Name" type="MailAppCapabilities" use="required"/>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.31 CT_Capabilities2

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [MailApp](#)

Specifies one capability supported by a mail app.

Child Elements:

Capability: A **MailAppCapability** element (section [2.2.30](#)) that specifies a required capability.

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

```
<xs:complexType name="CT_Capabilities2">
  <xs:sequence>
    <xs:element name="Capability" type="MailAppCapability" minOccurs="1" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.32 MailApp

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Elements of this type define an app activated according to rules and displayed adjacent to the selected mail item to enhance the reading experience.

Child Elements:

Id: A **UUID** element (section [2.3.5](#)) that specifies a unique identifier for the app for Office.

AlternateId: An **AlternateId** element (section [2.3.6](#)) that specifies an alternate identifier for the app for Office.

Version: A **Version** element (section [2.3.8](#)) that specifies the version of the app for Office.

ProviderName: A **ShortString** element (section [2.3.2](#)) that specifies the name of the individual or company that developed the app for Office.

DefaultLocale: A **CultureName** element (section [2.3.7](#)) that specifies the culture name of the locale used by default by strings in the app for Office manifest.

DisplayName: A **ShortLocaleAwareSetting** element (section [2.2.6](#)) that specifies a short name for the app for Office.

Description: A **LongLocaleAwareSetting** element (section [2.2.7](#)) that specifies a verbose description of the app for Office.

IconUrl: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the Uniform Resource Locator (URL) of the image that is used to represent the app for Office.

SupportUrl: A **URLLocaleAwareSetting** element (section [2.2.8](#)) that specifies the URL of a page that provides support information for the app for Office.

AppDomains: An **AppDomains** element (section [2.2.20](#)) that specifies additional domains that this app for Office will use to load pages.

VersionOverrides: An element that specifies elements for use in future versions of the app for Office platform. These elements MAY be overrides to previously defined elements or new elements.

Capabilities: A **CT_Capabilities2** element (section [2.2.31](#)) that specifies the capabilities that are required by this mail app. The host application will look for at least one match before activating the app.

DesktopSettings: A **DesktopMailAppSettings** element (section [2.2.11](#)) that specifies settings that apply when this mail app is used on a desktop computer.

TabletSettings: A **TabletMailAppSettings** element (section [2.2.12](#)) that specifies settings that apply when this mail app is used on a tablet computer.

PhoneSettings: A **PhoneMailAppSettings** element (section [2.2.13](#)) that specifies settings that apply when this mail app is used on a smartphone.

Permissions: An **ST_Permissions2** element (section [2.3.22](#)) that specifies the permission level required by this mail app.

Rule: A **Rule** section element ([2.2.14](#)) that specifies the activation rule for this mail app.

DisableEntityHighlighting: A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) element that specifies whether entity highlighting is disabled for this mail app. If the value of this element is true, entity highlighting is disabled for this mail app.

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

```
<xs:complexType name="MailApp">
  <xs:complexContent>
    <xs:extension base="OfficeApp">
      <xs:sequence>
        <xs:element name="Capabilities" minOccurs="1" maxOccurs="1"
type="ver:CT_Capabilities2"/>
        <xs:element name="DesktopSettings" type="DesktopMailAppSettings" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="TabletSettings" type="TabletMailAppSettings" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="PhoneSettings" type="PhoneMailAppSettings" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="Permissions" minOccurs="1" maxOccurs="1"
type="ver:ST_Permissions2"/>
        <xs:element name="Rule" type="Rule" minOccurs="1" maxOccurs="1"/>
        <xs:element name="DisableEntityHighlighting" type="xs:boolean" minOccurs="0"
maxOccurs="1"/>
        <xs:any id="MailAppSignature" minOccurs="0" maxOccurs="1"
namespace="http://www.w3.org/2000/09/xmldsig#" processContents="lax"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3 Simple Types

2.3.1 NonEmptyString

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [LocaleOverride](#), [LocaleAwareSetting](#), [ItemIs](#), [ItemHasKnownEntity](#), [ItemHasRegularExpressionMatch](#)

Specifies a string that MUST NOT be empty and can be unbounded.

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

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

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.2 ShortString

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ShortLocaleOverride](#), [ShortLocaleAwareSetting](#), [OfficeApp](#), [ContentApp](#), [TaskPaneApp](#), [MailApp](#)

Specifies a string that MUST contain between 1 and 125 characters.

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

```
<xs:simpleType name="ShortString">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="125"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.3 LongString

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [LongLocaleOverride](#), [LongLocaleAwareSetting](#), [AppDomains](#)

Specifies a string that MUST contain between 1 and 250 characters.

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

```
<xs:simpleType name="LongString">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="250"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.4 URL

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [URLLocaleOverride](#), [URLLocaleAwareSetting](#)

Specifies a string that holds a Uniform Resource Locator (URL) and that **MUST** contain between 1 and 2048 characters.

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

```
<xs:simpleType name="URL">
  <xs:restriction base="xs:anyURI">
    <xs:minLength value="1"/>
    <xs:maxLength value="2048"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.5 UUID

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [OfficeApp](#), [ContentApp](#), [TaskPaneApp](#), [MailApp](#)

Specifies the supported representations of a **Uniform Resource Name (URN)**, **universally unique identifier (UUID)**, or **GUID**.

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

```
<xs:simpleType name="UUID">
  <xs:restriction base="xs:string">
    <xs:pattern value="(urn:uuid:)?[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}|\{[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}\}"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.6 AlternateId

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [OfficeApp](#), [ContentApp](#), [TaskPaneApp](#), [MailApp](#)

Specifies an alternate identifier for the app for Office.

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

```
<xs:simpleType name="AlternateId">
  <xs:restriction base="xs:string">
    <xs:pattern value=".{5,12}\\WA[0-9]{9}"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.7 CultureName

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [LocaleOverride](#), [ShortLocaleOverride](#), [LongLocaleOverride](#), [URLLocaleOverride](#), [OfficeApp](#), [ContentApp](#), [TargetDialects](#), [TaskPaneApp](#), [MailApp](#)

Specifies the culture name of the language used in the string that it is qualifying.

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

```
<xs:simpleType name="CultureName">
  <xs:restriction base="xs:string">
    <xs:pattern value="[a-zA-Z]{2,3}-[a-zA-Z0-9]{3,8}(-[a-zA-Z]{2,3})?|[a-zA-Z]{2,3}(-[a-zA-Z]{2,3})(_tradnl|.pseudo|-[a-zA-Z]{4,8})?"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.8 Version

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [OfficeApp](#), [ContentApp](#), [TaskPaneApp](#), [MailApp](#)

Specifies the version format for an app for Office.

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

```
<xs:simpleType name="Version">
  <xs:restriction base="xs:string">
    <xs:pattern value="([0-9]{1,5})(\.[0-9]{1,5}){0,3}"/>
  </xs:restriction>
```

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

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.9 ST_RequestedWidth

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ContentAppSettings](#)

Specifies the desired width in pixels for the initial content placeholder. This value MUST be between 32 and 1000 pixels.

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

```
<xs:simpleType name="ST_RequestedWidth">
  <xs:restriction base="xs:integer">
    <xs:minInclusive value="32"/>
    <xs:maxInclusive value="1000"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.10 ST_RequestedHeight

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ContentAppSettings](#)

Specifies the desired height in pixels for the initial content placeholder. This value MUST be between 21 and 1000 pixels.

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

```
<xs:simpleType name="ST_RequestedHeight">
  <xs:restriction base="xs:integer">
    <xs:minInclusive value="21"/>
    <xs:maxInclusive value="1000"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.11 ST_RequestedHeight1

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [DesktopMailAppSettings](#)

Specifies the desired height, in pixels, of the display area for a mail app when running on a non-tablet device.

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

```
<xs:simpleType name="ST_RequestedHeight1">
  <xs:restriction base="xs:integer">
    <xs:minInclusive value="32"/>
    <xs:maxInclusive value="450"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.12 ST_RequestedHeight2

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [TabletMailAppSettings](#)

Specifies the desired height, in pixels, of the display area for a mail app when running on a tablet computer.

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

```
<xs:simpleType name="ST_RequestedHeight2">
  <xs:restriction base="xs:integer">
    <xs:minInclusive value="32"/>
    <xs:maxInclusive value="450"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.13 ItemType

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ItemIs](#)

Specifies the different types of items that are used in rules specified by **ItemIs** elements (section [2.2.15](#)).

Value	Meaning
Message	Specifies that the type of item is a mail message.
Appointment	Specifies that the type of item is an appointment.

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

```
<xs:simpleType name="ItemType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Message"/>
    <xs:enumeration value="Appointment"/>
  </xs:restriction>
</xs:simpleType>
```



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

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.14 KnownEntityType

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ItemHasKnownEntity](#)

Elements of this type specify the type of a known entity that can be recognized and extracted from the item's subject and body, or that can be used in rules specified by **ItemHasKnownEntity** elements (section [2.2.16](#)).

Value	Meaning
MeetingSuggestion	Text that is identified by pattern recognition to reference an event or a meeting.
TaskSuggestion	Text that is identified by pattern recognition to contain an actionable phrase.
Address	Text that is identified by pattern recognition to reference a postal address in the United States.
Url	Text that is identified by pattern recognition to contain a file name or web address URL.
PhoneNumber	A series of digits that is identified by pattern recognition as a telephone number in North America.
EmailAddress	Text that is identified by pattern recognition to contain an SMTP format email address.
Contact	Text that is identified by pattern recognition to contain contact (3) information.

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

```
<xs:simpleType name="KnownEntityType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="MeetingSuggestion"/>
    <xs:enumeration value="TaskSuggestion"/>
    <xs:enumeration value="Address"/>
    <xs:enumeration value="Url"/>
    <xs:enumeration value="PhoneNumber"/>
    <xs:enumeration value="EmailAddress"/>
    <xs:enumeration value="Contact"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.15 PropertyName

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ItemHasRegularExpressionMatch](#)

Specifies property names that can be used with the **ItemHasRegularExpressionMatch** rule (section [2.2.17](#)).

Value	Meaning
Subject	Evaluates the regular expression against the item subject.
BodyAsPlaintext	Evaluates the regular expression against the item body in plain text.
BodyAsHTML	Evaluates the regular expression against the item body if the body is available in HTML .
SenderSMTPAddress	Evaluates the regular expression against the SMTP address of the item sender.

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

```
<xs:simpleType name="PropertyName">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Subject"/>
    <xs:enumeration value="BodyAsPlaintext"/>
    <xs:enumeration value="BodyAsHTML"/>
    <xs:enumeration value="SenderSMTPAddress"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.16 LogicalOperator

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [RuleCollection](#)

Specifies logical operators that allow combining multiple rules into a rule collection.

Value	Meaning
And	A binary logical operator that returns true if both operands are true; otherwise the operator returns false.
Or	A binary logical operator that returns true if one or both operands are true; otherwise the operator returns false.

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

```
<xs:simpleType name="LogicalOperator">
  <xs:restriction base="xs:string">
    <xs:enumeration value="And"/>
    <xs:enumeration value="Or"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.17 ContentAppCapabilities

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ContentAppCapability](#)

Specifies one or more capabilities that are used to determine the host applications for content apps.

Value	Meaning
Workbook	This capability defines workbook functionality.

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

```
<xs:simpleType name="ContentAppCapabilities">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Workbook"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.18 ST_Permissions

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [ContentApp](#)

Specifies the permission level required by a content app.

Value	Meaning
Restricted	Permission that applies to all content apps, enables activation, and allows use of the Settings object API.
ReadDocument	Includes the Restricted permission, and also enables the content app to get data from the document.
WriteDocument	Includes the Restricted permission, and also enables the content app to set data in the document.
ReadWriteDocument	Includes the ReadDocument and WriteDocument permissions, and also enables the content app to use all write methods, manage bindings, and subscribe to events.

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

```
<xs:simpleType name="ST_Permissions">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Restricted"/>
    <xs:enumeration value="ReadDocument"/>
    <xs:enumeration value="WriteDocument"/>
  </xs:restriction>
</xs:simpleType>
```

```

    <xs:enumeration value="ReadWriteDocument"/>
  </xs:restriction>
</xs:simpleType>

```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.19 TaskPaneAppCapabilities

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [TaskPaneAppCapability](#)

Specifies one or more capabilities that are used to determine the host applications for task pane apps.

Value	Meaning
Document	This capability defines document functionality.
Project	This capability defines project functionality.
Workbook	This capability defines workbook functionality.
Presentation	This capability defines presentation functionality.

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

```

<xs:simpleType name="TaskPaneAppCapabilities">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Document"/>
    <xs:enumeration value="Project"/>
    <xs:enumeration value="Workbook"/>
    <xs:enumeration value="Presentation"/>
  </xs:restriction>
</xs:simpleType>

```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.20 ST_Permissions1

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [TaskPaneApp](#)

Specifies the permission level required by a task pane app.

Value	Meaning
Restricted	Permission that applies to all task pane apps, enables activation, and allows use of the Settings object.
ReadDocument	Includes the Restricted permission, and also enables the task pane app to get data from the document.

Value	Meaning
ReadAllDocument	Includes the Restricted and ReadDocument permissions, and also enables the task pane app to obtain a copy of the entire document.
WriteDocument	Includes the Restricted permission, and also enables the task pane app to set data in the document.
ReadWriteDocument	Includes the ReadDocument , WriteDocument , ReadAllDocument permissions, and also enables the task pane app to use all write methods, manage bindings, and subscribe to events.

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

```
<xs:simpleType name="ST_Permissions1">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Restricted"/>
    <xs:enumeration value="ReadDocument"/>
    <xs:enumeration value="ReadAllDocument"/>
    <xs:enumeration value="WriteDocument"/>
    <xs:enumeration value="ReadWriteDocument"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.21 MailAppCapabilities

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [MailAppCapability](#)

Elements of this type specify a capability that is used to determine the host applications for mail apps.

Value	Meaning
Mailbox	This capability represents the ability to access a mailbox.

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

```
<xs:simpleType name="MailAppCapabilities">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Mailbox"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

2.3.22 ST_Permissions2

Target namespace: <http://schemas.microsoft.com/office/appforoffice/1.0>

Referenced by: [MailApp](#)

Specifies the permission level required by a mail app.

Value	Meaning
Restricted	Permission that applies to all mail apps, enables the ItemIs (section 2.2.15) and ItemHasKnownEntity (section 2.2.16) activation rules, enables use of the Settings object and a subset of the JavaScript API for Office.
ReadItem	Applies to the selected item, includes the Restricted permission, and also enables the mail app to use all the well-known entities and regular expression activation rules to read all properties and to write custom properties. Also allows access to the identity token.
ReadWriteMailbox	Includes the ReadItem permission and also enables the mail app to read and write to all properties of any item in the user's mailbox.

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

```
<xs:simpleType name="ST_Permissions2">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Restricted"/>
    <xs:enumeration value="ReadItem"/>
    <xs:enumeration value="ReadWriteMailbox"/>
  </xs:restriction>
</xs:simpleType>
```

See section [5.1](#) for the full W3C XML Schema ([\[XMLSCHEMA1\]](#) section 2.1).

3 Structure Examples

There are three main types of apps for Office as defined by the **type** (section [2.1.1](#)) attribute. In addition, the **TaskPaneApp** (section [2.2.29](#)) complex type includes additional elements to enable the implementer to support dictionary functionality. The three types and the dictionary sub-type are shown in the following examples.

3.1 Content App Example

The following XML is a sample manifest for a content app.

```
<?xml version="1.0" encoding="utf-8"?>
<OfficeApp xmlns="http://schemas.microsoft.com/office/appforoffice/1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ver="http://schemas.microsoft.com/office/appforoffice/1.0"
  xsi:type="ContentApp">
  <Id>df5b5660-84ce-11e1-b0c4-0800200c9a66</Id>
  <AlternateId>en-US\WA123456789</AlternateId>
  <Version>1.0.0.0</Version>
  <ProviderName>Microsoft</ProviderName>
  <DefaultLocale>en-US.pseudo</DefaultLocale>
  <DisplayName DefaultValue="AuthentiMOE" />
  <Description DefaultValue="Authenticates to various services" />
  <IconUrl DefaultValue="http://www.contoso.com/Bonsai1.png" />
  <Capabilities>
    <Capability Name="Workbook" />
  </Capabilities>
  <DefaultSettings>
    <SourceLocation DefaultValue="http://www.contoso.com/AuthentiMoe.html" />
    <RequestedWidth>400</RequestedWidth>
    <RequestedHeight>400</RequestedHeight>
  </DefaultSettings>
  <Permissions>Restricted</Permissions>
  <AllowSnapshot>true</AllowSnapshot>
</OfficeApp>
```

3.2 Task Pane App Example

The following XML is a sample manifest for a task pane app.

```
<?xml version="1.0" encoding="utf-8"?>
<OfficeApp xmlns="http://schemas.microsoft.com/office/appforoffice/1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:ver="http://schemas.microsoft.com/office/appforoffice/1.0"
  xsi:type="TaskPaneApp">
  <Id>urn:uuid:ff3a1120-87ed-11e1-b0c4-0800200c9a66</Id>
  <AlternateId>en-us\WA123456789</AlternateId>
  <Version>1.0</Version>
  <ProviderName>Microsoft</ProviderName>
  <DefaultLocale>ar-SA</DefaultLocale>
  <DisplayName DefaultValue="قريب طبل ا ع ور شمل ا">
    <Override Value="Project App" Locale="en-US">
    </Override>
  </DisplayName>
```



```

<AlternateId>en-us\WA123456789</AlternateId>
<Version>1.0.0.0</Version>
<ProviderName>STANDS4_ENGLISH</ProviderName>
<DefaultLocale>en-US</DefaultLocale>
<DisplayName DefaultValue="English Dictionary">
</DisplayName>
<Description DefaultValue="The STANDS4 English dictionary is a comprehensive unilingual
dictionary that contains thousands of popular definitions along with pronunciations and
example usage in the English language">
</Description>
<IconUrl DefaultValue="http://www.contoso.com/favicon.ico">
</IconUrl>
<Capabilities>
  <Capability Name="Document">
  </Capability>
</Capabilities>
<DefaultSettings>
  <SourceLocation DefaultValue="http://www.contoso.com/dictionaries/index.php?lang=en">
  </SourceLocation>
</DefaultSettings>
<Permissions>ReadDocument</Permissions>
<Dictionary>
  <TargetDialects>
    <TargetDialect>en-AU</TargetDialect>
    <TargetDialect>en-BZ</TargetDialect>
    <TargetDialect>en-CA</TargetDialect>
    <TargetDialect>en-HK</TargetDialect>
    <TargetDialect>en-IN</TargetDialect>
    <TargetDialect>en-ID</TargetDialect>
    <TargetDialect>en-IE</TargetDialect>
    <TargetDialect>en-JM</TargetDialect>
    <TargetDialect>en-MY</TargetDialect>
    <TargetDialect>en-NZ</TargetDialect>
    <TargetDialect>en-PH</TargetDialect>
    <TargetDialect>en-SG</TargetDialect>
    <TargetDialect>en-ZA</TargetDialect>
    <TargetDialect>en-TT</TargetDialect>
    <TargetDialect>en-GB</TargetDialect>
    <TargetDialect>en-US</TargetDialect>
    <TargetDialect>en-ZW</TargetDialect>
  </TargetDialects>
  <QueryUri DefaultValue="http://www.contoso.com/queries/defs.php?lang=en&word=">
  </QueryUri>
  <CitationText DefaultValue="Definitions by: ">
  </CitationText>
  <DictionaryName DefaultValue="contoso.com">
  </DictionaryName>
  <DictionaryHomePage DefaultValue="http://www.contoso.com/">
  </DictionaryHomePage>
</Dictionary>
</OfficeApp>

```

3.4 Mail App

The following XML is a sample manifest for a mail app.

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

```

<OfficeApp xmlns=http://schemas.microsoft.com/office/appforoffice/1.0
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="MailApp">
  <Id>FA55E9EA-52A4-4198-B23A-F106E223AB63</Id>
  <AlternateId>en-us\WA111111111</AlternateId>
  <Version>1.0.75</Version>
  <ProviderName>Microsoft</ProviderName>
  <DefaultLocale>en-US</DefaultLocale>
  <DisplayName DefaultValue="Lync Dialer">
    <Override Locale="en-US" Value="Lync Dialer"/>
  </DisplayName>
  <Description DefaultValue="Use this web extension to dial phone numbers using Lync." />
  <Capabilities>
    <Capability Name="Mailbox"/>
  </Capabilities>
  <DesktopSettings>
    <SourceLocation DefaultValue="https://www.contoso.com/dialer/dtdialer.htm" />
    <RequestedHeight>250</RequestedHeight>
  </DesktopSettings>
  <TabletSettings>
    <SourceLocation DefaultValue="https://www.contoso.com/dialer/tdialer.htm" />
    <RequestedHeight>150</RequestedHeight>
  </TabletSettings>
  <PhoneSettings>
    <SourceLocation DefaultValue="https://www.contoso.com/dialer/pdialer.htm" />
  </PhoneSettings>
  <Permissions>ReadItem</Permissions>
  <Rule xsi:type="RuleCollection" Mode="And">
    <Rule xsi:type="ItemHasRegularExpressionMatch" RegExName="reg1" RegExValue="((\d{3}\d{3})|(\d{3}-)\d{3})-\d{4}" PropertyName="BodyAsPlaintext"/>
    <Rule xsi:type="ItemIs" ItemType="Message"/>
  </Rule>
  <DisableEntityHighlighting>false</DisableEntityHighlighting>
</OfficeApp>

```

4 Security

4.1 Security Considerations for Implementers

None.

4.2 Index of Security Fields

None.

5 Appendix A: Full XML Schema

For ease of implementation, the following sections provide the full XML schema for this protocol.

Schema name	Prefix	Section
Office Web Extensions	ver	section 5.1

5.1 <http://schemas.microsoft.com/office/appforoffice/1.0> Schema

```
<xs:schema id="OfficeAppManifest" elementFormDefault="qualified" version="1.0"
targetNamespace="http://schemas.microsoft.com/office/appforoffice/1.0"
xmlns="http://schemas.microsoft.com/office/appforoffice/1.0"
xmlns:ver="http://schemas.microsoft.com/office/appforoffice/1.0"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="NonEmptyString">
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ShortString">
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="125"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="LongString">
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="250"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="URL">
    <xs:restriction base="xs:anyURI">
      <xs:minLength value="1"/>
      <xs:maxLength value="2048"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="LocaleOverride">
    <xs:attribute name="Locale" type="CultureName" use="required"/>
    <xs:attribute name="Value" type="NonEmptyString" use="required"/>
  </xs:complexType>
  <xs:complexType name="ShortLocaleOverride">
    <xs:attribute name="Locale" type="CultureName" use="required"/>
    <xs:attribute name="Value" type="ShortString" use="required"/>
  </xs:complexType>
  <xs:complexType name="LongLocaleOverride">
    <xs:attribute name="Locale" type="CultureName" use="required"/>
    <xs:attribute name="Value" type="LongString" use="required"/>
  </xs:complexType>
  <xs:complexType name="URLLocaleOverride">
    <xs:attribute name="Locale" type="CultureName" use="required"/>
    <xs:attribute name="Value" type="URL" use="required"/>
  </xs:complexType>
  <xs:complexType name="LocaleAwareSetting">
    <xs:sequence>
      <xs:element name="Override" type="LocaleOverride" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>

```

```

    <xs:attribute name="DefaultValue" type="NonEmptyString" use="required"/>
  </xs:complexType>
  <xs:complexType name="ShortLocaleAwareSetting">
    <xs:sequence>
      <xs:element name="Override" type="ShortLocaleOverride" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="DefaultValue" type="ShortString" use="required"/>
  </xs:complexType>
  <xs:complexType name="LongLocaleAwareSetting">
    <xs:sequence>
      <xs:element name="Override" type="LongLocaleOverride" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="DefaultValue" type="LongString" use="required"/>
  </xs:complexType>
  <xs:complexType name="URLLocaleAwareSetting">
    <xs:sequence>
      <xs:element name="Override" type="URLLocaleOverride" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="DefaultValue" type="URL" use="required"/>
  </xs:complexType>
  <xs:simpleType name="UUID">
    <xs:restriction base="xs:string">
      <xs:pattern value="(urn:uuid:)?[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-
F]{4}-[0-9a-fA-F]{12}|\{[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-
F]{12}\}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="AlternateId">
    <xs:restriction base="xs:string">
      <xs:pattern value=".{5,12}\\WA[0-9]{9}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="CultureName">
    <xs:restriction base="xs:string">
      <xs:pattern value="[a-zA-Z]{2,3}-[a-zA-Z0-9]{3,8}(-[a-zA-Z]{2,3})?|[a-zA-Z]{2,3}(-[a-
zA-Z]{2,3}(_tradnl|\.pseudo|- [a-zA-Z]{4,8})?)?" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="Version">
    <xs:restriction base="xs:string">
      <xs:pattern value="([0-9]{1,5})(\.[0-9]{1,5}){0,3}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ST_RequestedWidth">
    <xs:restriction base="xs:integer">
      <xs:minInclusive value="32" />
      <xs:maxInclusive value="1000" />
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ST_RequestedHeight">
    <xs:restriction base="xs:integer">
      <xs:minInclusive value="32" />
      <xs:maxInclusive value="1000" />
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="ContentAppSettings">

```

```

    <xs:sequence>
      <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
      <xs:element name="RequestedWidth" minOccurs="0" maxOccurs="1"
type="ver:ST_RequestedWidth"/>
      <xs:element name="RequestedHeight" minOccurs="0" maxOccurs="1"
type="ver:ST_RequestedHeight"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="TaskPaneAppSettings">
    <xs:sequence>
      <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
  <xs:simpleType name="ST_RequestedHeight1">
    <xs:restriction base="xs:integer">
      <xs:minInclusive value="32"/>
      <xs:maxInclusive value="450"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="DesktopMailAppSettings">
    <xs:sequence>
      <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
      <xs:element name="RequestedHeight" minOccurs="1" maxOccurs="1"
type="ver:ST_RequestedHeight1"/>
    </xs:sequence>
  </xs:complexType>
  <xs:simpleType name="ST_RequestedHeight2">
    <xs:restriction base="xs:integer">
      <xs:minInclusive value="32"/>
      <xs:maxInclusive value="450"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="TabletMailAppSettings">
    <xs:sequence>
      <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
      <xs:element name="RequestedHeight" minOccurs="1" maxOccurs="1"
type="ver:ST_RequestedHeight2"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="PhoneMailAppSettings">
    <xs:sequence>
      <xs:element name="SourceLocation" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="Rule" abstract="true"/>
  <xs:complexType name="ItemIs">
    <xs:complexContent>
      <xs:extension base="Rule">
        <xs:attribute name="ItemType" type="ItemType" use="required"/>
        <xs:attribute name="ItemClass" type="NonEmptyString" use="optional"/>
        <xs:attribute name="IncludeSubClasses" type="xs:boolean" use="optional"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:simpleType name="ItemType">

```

```

    <xs:restriction base="xs:string">
      <xs:enumeration value="Message"/>
      <xs:enumeration value="Appointment"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="KnownEntityType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="MeetingSuggestion"/>
      <xs:enumeration value="TaskSuggestion"/>
      <xs:enumeration value="Address"/>
      <xs:enumeration value="Url"/>
      <xs:enumeration value="PhoneNumber"/>
      <xs:enumeration value="EmailAddress"/>
      <xs:enumeration value="Contact"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="ItemHasKnownEntity">
    <xs:complexContent>
      <xs:extension base="Rule">
        <xs:attribute name="EntityType" type="KnownEntityType" use="required"/>
        <xs:attribute name="RegexFilter" type="NonEmptyString" use="optional"/>
        <xs:attribute name="FilterName" type="NonEmptyString" use="optional"/>
        <xs:attribute name="IgnoreCase" type="xs:boolean" use="optional"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:simpleType name="PropertyName">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Subject"/>
      <xs:enumeration value="BodyAsPlaintext"/>
      <xs:enumeration value="BodyAsHTML"/>
      <xs:enumeration value="SenderSMTPAddress"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="ItemHasRegularExpressionMatch">
    <xs:complexContent>
      <xs:extension base="Rule">
        <xs:attribute name="RegexName" type="NonEmptyString" use="required"/>
        <xs:attribute name="RegexValue" type="NonEmptyString" use="required"/>
        <xs:attribute name="PropertyName" type="PropertyName" use="required"/>
        <xs:attribute name="IgnoreCase" type="xs:boolean" use="optional"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="ItemHasAttachment">
    <xs:complexContent>
      <xs:extension base="Rule"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:simpleType name="LogicalOperator">
    <xs:restriction base="xs:string">
      <xs:enumeration value="And"/>
      <xs:enumeration value="Or"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="RuleCollection">
    <xs:complexContent>
      <xs:extension base="Rule">
        <xs:sequence>

```

```

        <xs:element name="Rule" type="Rule" minOccurs="1" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="Mode" type="LogicalOperator" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="AppDomains">
    <xs:sequence minOccurs="1" maxOccurs="unbounded">
        <xs:element name="AppDomain" type="LongString"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="OfficeApp" abstract="true">
    <xs:sequence>
        <xs:element name="Id" type="UUID" minOccurs="1" maxOccurs="1"/>
        <xs:element name="AlternateId" type="AlternateId" minOccurs="0" maxOccurs="1"/>
        <xs:element name="Version" type="Version" minOccurs="1" maxOccurs="1"/>
        <xs:element name="ProviderName" type="ShortString" minOccurs="1" maxOccurs="1"/>
        <xs:element name="DefaultLocale" type="CultureName" minOccurs="1" maxOccurs="1"/>
        <xs:element name="DisplayName" type="ShortLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Description" type="LongLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="IconUrl" type="URLLocaleAwareSetting" minOccurs="0" maxOccurs="1"/>
        <xs:element name="SupportUrl" type="URLLocaleAwareSetting" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="AppDomains" type="AppDomains" minOccurs="0" maxOccurs="1"/>
        <xs:element name="VersionOverrides"
xmlns="http://schemas.microsoft.com/office/versionoverrides/1.0" minOccurs="0"
maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>
<xs:simpleType name="ContentAppCapabilities">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Workbook"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="ContentAppCapability">
    <xs:attribute name="Name" type="ContentAppCapabilities" use="required"/>
</xs:complexType>
<xs:complexType name="CT_Capabilities">
    <xs:sequence>
        <xs:element name="Capability" type="ContentAppCapability" minOccurs="1" maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>
<xs:simpleType name="ST_Permissions">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Restricted"/>
        <xs:enumeration value="ReadDocument"/>
        <xs:enumeration value="WriteDocument"/>
        <xs:enumeration value="ReadWriteDocument"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="ContentApp">
    <xs:complexContent>
        <xs:extension base="OfficeApp">
            <xs:sequence>
                <xs:element name="Capabilities" minOccurs="1" maxOccurs="1"
type="ver:CT_Capabilities"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```



```

        <xs:element name="DefaultSettings" type="ContentAppSettings" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Permissions" minOccurs="1" maxOccurs="1"
type="ver:ST_Permissions"/>
        <xs:element name="AllowSnapshot" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
        <xs:any id="ContentAppSignature" minOccurs="0" maxOccurs="1"
namespace="http://www.w3.org/2000/09/xmldsig#" processContents="lax"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="Dictionary">
    <xs:sequence>
        <xs:element name="TargetDialects" type="TargetDialects" minOccurs="1" maxOccurs="1"/>
        <xs:element name="QueryUri" type="URLLocaleAwareSetting" minOccurs="1" maxOccurs="1"/>
        <xs:element name="CitationText" type="ShortLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="DictionaryName" type="ShortLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="DictionaryHomePage" type="URLLocaleAwareSetting" minOccurs="1"
maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="TargetDialects">
    <xs:sequence minOccurs="1" maxOccurs="unbounded">
        <xs:element name="TargetDialect" type="CultureName"/>
    </xs:sequence>
</xs:complexType>
<xs:simpleType name="TaskPaneAppCapabilities">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Document"/>
        <xs:enumeration value="Project"/>
        <xs:enumeration value="Workbook"/>
        <xs:enumeration value="Presentation"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="TaskPaneAppCapability">
    <xs:attribute name="Name" type="TaskPaneAppCapabilities" use="required"/>
</xs:complexType>
<xs:complexType name="CT_Capabilities1">
    <xs:sequence>
        <xs:element name="Capability" type="TaskPaneAppCapability" minOccurs="1"
maxOccurs="4"/>
    </xs:sequence>
</xs:complexType>
<xs:simpleType name="ST_Permissions1">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Restricted"/>
        <xs:enumeration value="ReadDocument"/>
        <xs:enumeration value="ReadAllDocument"/>
        <xs:enumeration value="WriteDocument"/>
        <xs:enumeration value="ReadWriteDocument"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="TaskPaneApp">
    <xs:complexContent>
        <xs:extension base="OfficeApp">
            <xs:sequence>
                <xs:element name="Capabilities" minOccurs="1" maxOccurs="1"
type="ver:CT_Capabilities1"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        <xs:element name="DefaultSettings" type="TaskPaneAppSettings" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Permissions" minOccurs="1" maxOccurs="1"
type="ver:ST_Permissions1"/>
        <xs:element name="Dictionary" type="Dictionary" minOccurs="0" maxOccurs="1"/>
        <xs:any id="TaskPaneAppSignature" minOccurs="0" maxOccurs="1"
namespace="http://www.w3.org/2000/09/xmlsig#" processContents="lax"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:simpleType name="MailAppCapabilities">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Mailbox"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="MailAppCapability">
    <xs:attribute name="Name" type="MailAppCapabilities" use="required"/>
</xs:complexType>
<xs:complexType name="CT_Capabilities2">
    <xs:sequence>
        <xs:element name="Capability" type="MailAppCapability" minOccurs="1" maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>
<xs:simpleType name="ST_Permissions2">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Restricted"/>
        <xs:enumeration value="ReadItem"/>
        <xs:enumeration value="ReadWriteMailbox"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="MailApp">
    <xs:complexContent>
        <xs:extension base="OfficeApp">
            <xs:sequence>
                <xs:element name="Capabilities" minOccurs="1" maxOccurs="1"
type="ver:CT_Capabilities2"/>
                <xs:element name="DesktopSettings" type="DesktopMailAppSettings" minOccurs="1"
maxOccurs="1"/>
                <xs:element name="TabletSettings" type="TabletMailAppSettings" minOccurs="0"
maxOccurs="1"/>
                <xs:element name="PhoneSettings" type="PhoneMailAppSettings" minOccurs="0"
maxOccurs="1"/>
                <xs:element name="Permissions" minOccurs="1" maxOccurs="1"
type="ver:ST_Permissions2"/>
                <xs:element name="Rule" type="Rule" minOccurs="1" maxOccurs="1"/>
                <xs:element name="DisableEntityHighlighting" type="xs:boolean" minOccurs="0"
maxOccurs="1"/>
                <xs:any id="MailAppSignature" minOccurs="0" maxOccurs="1"
namespace="http://www.w3.org/2000/09/xmlsig#" processContents="lax"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="OfficeApp" type="OfficeApp"/>
</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 Exchange Server 2013
- Microsoft Project 2013
- Microsoft Outlook 2013
- Microsoft Word 2013
- Microsoft Excel 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.

7 Change Tracking

This section identifies changes that were made to the [MS-OWEMXML] protocol document between the July 2013 and November 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.
- The removal of a document from the documentation set.

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 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 changes were introduced. Minor editorial and formatting changes may have been made, but the technical content of the document is identical to the last released version.

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.

- 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 dochelp@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
1.3.3 Mail Apps	Changed "Contextual apps" to "Mail Apps".	N	Content updated.
1.6 Versioning and Localization	Updated the reference link for the LocaleAwareSetting type.	N	Content updated.
2.1.1 OfficeApp	Added description about the type of this element.	N	New content added.

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