

# [MS-OXWCONFIG]: Web Service Configuration Protocol

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## Revision Summary

Date	Revision History	Revision Class	Comments
04/10/2009	0.1	Major	Initial Availability.
07/15/2009	1.0	Major	Revised and edited for technical content.
11/04/2009	1.1.0	Minor	Updated the technical content.
02/10/2010	2.0.0	Major	Updated and revised the technical content.
05/05/2010	3.0.0	Major	Updated and revised the technical content.
08/04/2010	3.1	Minor	Clarified the meaning of the technical content.
11/03/2010	3.2	Minor	Clarified the meaning of the technical content.
03/18/2011	3.2	No change	No changes to the meaning, language, or formatting of the technical content.
08/05/2011	3.3	Minor	Clarified the meaning of the technical content.
10/07/2011	3.3	No change	No changes to the meaning, language, or formatting of the technical content.
01/20/2012	4.0	Major	Significantly changed the technical content.
04/27/2012	4.0	No change	No changes to the meaning, language, or formatting of the technical content.
07/16/2012	4.1	Minor	Clarified the meaning of the technical content.
10/08/2012	5.0	Major	Significantly changed the technical content.
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07/26/2013	6.0	Major	Significantly changed the technical content.

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# 1 Introduction

The Web Service Configuration Protocol sends the request-response messages that retrieve configuration and policy information for a **mailbox**.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

## 1.1 Glossary

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

**domain**  
**GUID**  
**Hypertext Transfer Protocol (HTTP)**  
**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**  
**SOAP**  
**SOAP action**  
**SOAP fault**  
**XML**  
**XML namespace**

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

**email address**  
**mail tip**  
**mailbox**  
**Message object**  
**policy tip**  
**recipient**  
**rule**  
**Simple Mail Transfer Protocol (SMTP)**  
**Unified Messaging**  
**Uniform Resource Locator (URL)**  
**web server**  
**Web Services Description Language (WSDL)**  
**WSDL message**  
**WSDL operation**  
**WSDL port type**  
**XML schema**

The following terms are specific to this document:

**organization policy:** A policy that is comprised of a condition part and an action part. The condition part is expressed as a sequence of predicates that are evaluated by an email client. The action part specifies what action the email client takes if the condition is met. Organization policies are sets of conditions and associated actions that apply within an organization.

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

## 1.2 References

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

### 1.2.1 Normative References

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

[MS-OXWMT] Microsoft Corporation, "[Mail Tips Web Service Extensions](#)".

[MS-OXWSCDATA] Microsoft Corporation, "[Common Web Service Data Types](#)".

[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>

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, <http://www.ietf.org/rfc/rfc2616.txt>

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, <http://www.ietf.org/rfc/rfc2818.txt>

[RFC3066] Alvestrand, H., "Tags for the Identification of Language", RFC 3066, January 2001, <http://www.ietf.org/rfc/rfc3066.txt>

[RFC4646] A. Phillips, Ed., and M. Davis, Ed., "Tags for Identifying Languages", BCP 47, RFC 4646, September 2006, <http://www.ietf.org/rfc/rfc4646.txt>

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>

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

[XMLSCHEMA1] Thompson, H.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-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)".

[MS-OXPROTO] Microsoft Corporation, "[Exchange Server Protocols System Overview](#)".

[MS-OXWSADISC] Microsoft Corporation, "[Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol](#)".

### 1.3 Overview

The Web Service Configuration Protocol sends the request-response messages that retrieve **organization policy** configuration information for a mailbox. This includes configuration information for the following:

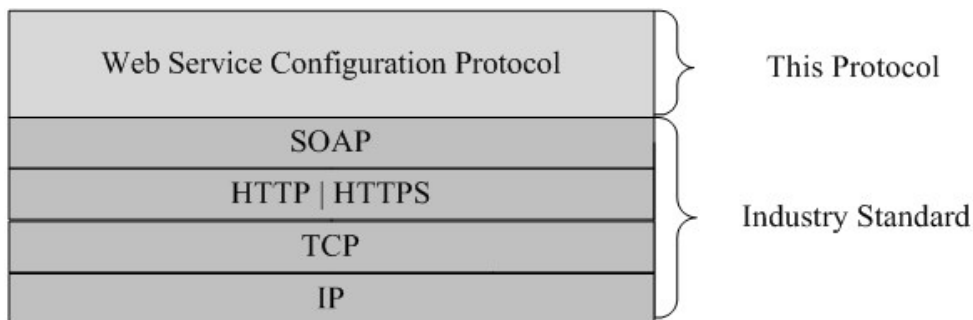
- **Mail tips**
- Protection rules – Protection rules are a collection of **rules (4)** that protect email messages by applying a rights protection template to the message.
- Data loss prevention (DLP) **policy tips** – DLP is a collection of features that provides content-aware classification and applies an organization policy to sensitive data within an email message.
- **Unified Messaging**

A client uses the **GetServiceConfiguration WSDL operation**, as described in section [3.1.4.1](#), to view the organization policy information for a user. An example of how to retrieve the information and examples of successful and unsuccessful responses are included in section [4](#).

Clients use **SOAP**, as described in [\[SOAP1.1\]](#), to contact the Web Service Configuration Protocol.

### 1.4 Relationship to Other Protocols

The Web Service Configuration Protocol uses SOAP over **HTTP** and SOAP over **HTTPS**, as shown in the following layering diagram.



**Figure 1: This protocol in relation to other protocols**

For conceptual background information and overviews of the relationships and interactions between this and other protocols, see [\[MS-OXPROTO\]](#).

### 1.5 Prerequisites/Preconditions

The **URL** of the Web Service Configuration Protocol can be retrieved by using the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [\[MS-OXWSADISC\]](#).

This protocol relies on the **web server** that hosts the application to perform authentication.



## 1.6 Applicability Statement

This protocol accesses configuration information for an organization policy when that information is available and when communication with the server is enabled for SOAP over HTTP or SOAP over HTTPS.

## 1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol uses SOAP 1.1, as described in section [2.1](#).
- **Protocol Versions:** This protocol specifies only one **WSDL port type** version. The **RequestVersion** element of the **GetServiceConfigurationSoapIn WSDL message**, as described in section [3.1.4.1.1.1](#), identifies the WSDL port type version of the request. The **ServerVersion** element of the **GetServiceConfigurationSoapOut** WSDL message, as described in section [3.1.4.1.1.2](#), identifies the version of the server responding to the request.
- **Security and Authentication Methods:** This protocol relies on the web server that is hosting it to perform authentication.
- **Localization:** This protocol uses the **MailboxCulture** element of the **GetServiceConfigurationSoapIn** WSDL message to specify the culture of a mailbox.
- **Capability Negotiation:** This protocol does not support version negotiation.

## 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.

## 2 Messages

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

### 2.1 Transport

This protocol uses SOAP version 1.1, as specified in [\[SOAP1.1\]](#).

This protocol **MUST** support SOAP over HTTP, as specified in [\[RFC2616\]](#). This protocol **SHOULD** use secure communications via HTTPS, as specified in [\[RFC2818\]](#).

### 2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema**, as defined in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and Web Services Description Language (WSDL), as defined in [\[WSDL\]](#).

#### 2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
soap	<a href="http://schemas.xmlsoap.org/WSDL/soap/">http://schemas.xmlsoap.org/WSDL/soap/</a>	<a href="#">[SOAP1.1]</a>
tns	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1]</a>
wsdl	<a href="http://schemas.xmlsoap.org/WSDL/">http://schemas.xmlsoap.org/WSDL/</a>	<a href="#">[WSDL]</a>
t	<a href="http://schemas.microsoft.com/exchange/services/2006/types">http://schemas.microsoft.com/exchange/services/2006/types</a>	
m	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	
mce	<a href="http://schemas.microsoft.com/office/2011/mce">http://schemas.microsoft.com/office/2011/mce</a>	

#### 2.2.2 Messages

This specification does not define any common WSDL message definitions.

#### 2.2.3 Elements

This specification does not define any common XML schema element definitions.

#### **2.2.4 Complex Types**

This specification does not define any common XML schema complex type definitions.

#### **2.2.5 Simple Types**

This specification does not define any common XML schema simple type definitions.

#### **2.2.6 Attributes**

This specification does not define any common XML schema attribute definitions.

#### **2.2.7 Groups**

This specification does not define any common XML schema group definitions.

#### **2.2.8 Attribute Groups**

This specification does not define any common XML schema attribute group definitions.

## 3 Protocol Details

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be empty, null, or not present but the behavior of the protocol as specified restricts the same elements to being non-empty, not null and present.

### 3.1 ExchangeServicePortType Server Details

The Web Service Configuration Protocol defines a single WSDL port type with one WSDL operation, which gets the service configuration for a mailbox.

#### 3.1.1 Abstract Data Model

None.

#### 3.1.2 Timers

None.

#### 3.1.3 Initialization

None.

#### 3.1.4 Message Processing Events and Sequencing Rules

The following table summarizes the list of operations as defined by this specification.

Operation	Description
<b>GetServiceConfiguration</b> (section <a href="#">3.1.4.1</a> )	Gets information about the organization policy configuration for a mailbox.

##### 3.1.4.1 GetServiceConfiguration Operation

The **GetServiceConfiguration** WSDL operation gets the service configuration for a mailbox.

```
<wsdl:operation name="GetServiceConfiguration">
  <wsdl:input message="tns:GetServiceConfigurationSoapIn" />
  <wsdl:output message="tns:GetServiceConfigurationSoapOut" />
</wsdl:operation>
```

The following is the WSDL binding specification for the **GetServiceConfiguration** WSDL operation.

```
<wsdl:operation name="GetServiceConfiguration">
  <soap:operation
```

```

        soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/
        GetServiceConfiguration"/>
<wsdl:input>
  <soap:body parts="request" use="literal"/>
  <soap:header message="tns:GetServiceConfigurationSoapIn" part="Impersonation"
    use="literal"/>
  <soap:header message="tns:GetServiceConfigurationSoapIn" part="RequestVersion"
    use="literal"/>
  <soap:header message="tns:GetServiceConfigurationSoapIn" part="MailboxCulture"
    use="literal"/>
</wsdl:input>
<wsdl:output>
  <soap:body parts="GetServiceConfigurationResult" use="literal"/>
  <soap:header message="tns:GetServiceConfigurationSoapOut" part="ServerVersion"
    use="literal"/>
</wsdl:output>
</wsdl:operation>

```

A successful **GetServiceConfiguration** WSDL operation request returns a **GetServiceConfigurationResponse** element, as specified in section 3.1.4.1.2.2, with the **ResponseClass** attribute, as defined in [MS-OXWSCDATA] section 2.2.4.57, set to "Success". The **ResponseCode** element of the **GetServiceConfigurationResponse** element, as specified in [MS-OXWSCDATA] section 2.2.4.57, is set to "NoError".

If the **GetServiceConfiguration** WSDL operation is not successful, the operation returns a **GetServiceConfigurationResponse** element with the **ResponseClass** attribute set to "Error". The **ResponseCode** element of the **GetServiceConfigurationResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.3.23.

The **GetServiceConfiguration** WSDL operation MUST use the **SOAP fault** specified in this section if the request **XML** is malformed according the schema specified in sections 6 and 7. The following XML specifies the structure of the SOAP fault that is returned when a request contains malformed XML. This message is not specified in the schema.

```

<s:Body>
  <s:Fault>
    <faultcode>
      xmlns:a="http://schemas.microsoft.com/exchange/services/2006/types">
        a:ErrorSchemaValidation
    </faultcode>
    <faultstring xml:lang="en-US">The request failed schema validation: The element
      'RequestedConfiguration' in namespace
      'http://schemas.microsoft.com/exchange/services/2006/messages'
      has incomplete content. List of possible elements expected:
      'ConfigurationName' in namespace
      'http://schemas.microsoft.com/exchange/services/2006/messages'.
    </faultstring>
    <detail>
      <e:ResponseCode>
        xmlns:e="http://schemas.microsoft.com/exchange/services/2006/errors">
          ErrorSchemaValidation
      </e:ResponseCode>
      <e:Message>
        xmlns:e="http://schemas.microsoft.com/exchange/services/2006/errors">
          The request failed schema validation.</e:Message>
      <e:MessageXml>
        xmlns:e="http://schemas.microsoft.com/exchange/services/2006/errors">

```

```

<t:LineNumber
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  16
</t:LineNumber>
<t:LinePosition
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  9
</t:LinePosition>
<t:Violation
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  The element 'RequestedConfiguration' in namespace
  'http://schemas.microsoft.com/exchange/services/2006/messages'
  has incomplete content. List of possible elements expected:
  'ConfigurationName' in namespace
  'http://schemas.microsoft.com/exchange/services/2006/messages'.
</t:Violation>
</e:MessageXml>
</detail>
</s:Fault>
</s:Body>

```

The **faultcode** element MUST have a text value of "a:ErrorSchemaValidation".

The **faultstring** element contains a human-readable explanation of the fault.

The **detail** element contains application-specific error information. This element is specified by the following child elements:

- **ResponseCode**: This element MUST have a text value of "ErrorSchemaValidation".
- **Message**: This element MUST have a text value of "The request failed schema validation.".
- **MessageXML**: This element contains additional error response information. This information includes the line number of the error, specified by the **LineNumber** element; the line position of the error, specified by the **LinePosition** element; and a human-readable explanation of the fault, specified by the **Violation** element.

### 3.1.4.1.1 Messages

The following WSDL message definitions are specific to the **GetServiceConfiguration** WSDL operation, as specified in section [3.1.4.1](#).

Message	Description
<b>GetServiceConfigurationSoapIn</b> (section <a href="#">3.1.4.1.1.1</a> )	Specifies the request to get the service configuration.
<b>GetServiceConfigurationSoapOut</b> (section <a href="#">3.1.4.1.1.2</a> )	Specifies the response to the <b>GetServiceConfigurationSoapIn</b> request WSDL message.

#### 3.1.4.1.1.1 GetServiceConfigurationSoapIn Message

The **GetServiceConfigurationSoapIn** WSDL message specifies the request to get the service configuration.

The following is the **GetServiceConfigurationSoapIn** WSDL message specification.

```
<wsdl:message name="GetServiceConfigurationSoapIn">
  <wsdl:part name="request" element="tns:GetServiceConfiguration"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
</wsdl:message>
```

The **GetServiceConfigurationSoapIn** WSDL message is the input message for the **SOAP action** <http://schemas.microsoft.com/exchange/services/2006/messages/GetServiceConfiguration>.

The parts of the **GetServiceConfigurationSoapIn** WSDL message are described in the following table.

Part name	Element/type	Description
<b>request</b>	<b>m:GetServiceConfiguration</b> (section <a href="#">3.1.4.1.2.1</a> )	Specifies the request.
<b>Impersonation</b>	<b>t:ExchangeImpersonation</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.5.3)	Specifies the account to impersonate.
<b>RequestVersion</b>	<b>t:RequestServerVersion</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.5.9)	Specifies the schema version for the <b>GetServiceConfiguration</b> WSDL operation request (section <a href="#">3.1.4.1</a> ).
<b>MailboxCulture</b>	<b>t:MailboxCulture</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.5.6)	Specifies the culture to use for accessing the mailbox. The cultures are defined in <a href="#">[RFC3066]</a> .

### 3.1.4.1.1.2 GetServiceConfigurationSoapOut Message

The **GetServiceConfigurationSoapOut** WSDL message specifies the response to the **GetServiceConfigurationSoapIn** request WSDL message, as specified in section [3.1.4.1.1.1](#).

The following is the **GetServiceConfigurationSoapOut** WSDL message specification.

```
<wsdl:message name="GetServiceConfigurationSoapOut">
  <wsdl:part name="GetServiceConfigurationResult"
    element="tns:GetServiceConfigurationResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **GetServiceConfigurationSoapOut** WSDL message is the output message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/GetServiceConfiguration>.

The parts of the **GetServiceConfigurationSoapOut** WSDL message are described in the following table.

Part name	Element/type	Description
<b>GetServiceConfigurationResult</b>	<b>m:GetServiceConfigurationResponse</b> (section <a href="#">3.1.4.1.2.2</a> )	Specifies the response.

Part name	Element/type	Description
<b>ServerVersion</b>	<b>t:ServerVersionInfo</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.5.10)	Specifies the server version for the response.

### 3.1.4.1.2 Elements

The following table lists the XML schema elements that are specific to the **GetServiceConfiguration** WSDL operation, as specified in section [3.1.4.1](#).

Element	Description
<b>GetServiceConfiguration</b> (section <a href="#">3.1.4.1.2.1</a> )	Specifies the base element for a <b>GetServiceConfiguration</b> WSDL operation request.
<b>GetServiceConfigurationResponse</b> (section <a href="#">3.1.4.1.2.2</a> )	Specifies the response message for a <b>GetServiceConfiguration</b> WSDL operation.
<b>PolicyNudgeRulesConfiguration</b> (section <a href="#">3.1.4.1.2.3</a> )	Specifies a set of DLP rules and rule classification definitions.
<b>rule</b> (section <a href="#">3.1.4.1.2.4</a> )	Specifies a DLP rule.
<b>RulePackage</b> (section <a href="#">3.1.4.1.2.5</a> )	Specifies the root of the rule pack document (section <a href="#">3.1.4.1.3.52</a> ).

#### 3.1.4.1.2.1 m:GetServiceConfiguration Element

The **GetServiceConfiguration** element specifies the base element for a **GetServiceConfiguration** WSDL operation request, as specified in section [3.1.4.1](#).

```
<xs:element name="GetServiceConfiguration" type="m:GetServiceConfigurationType"/>
```

#### 3.1.4.1.2.2 m:GetServiceConfigurationResponse Element

The **GetServiceConfigurationResponse** element specifies the response message for a **GetServiceConfiguration** WSDL operation, as specified in section [3.1.4.1](#).

```
<xs:element name="GetServiceConfigurationResponse"
type="m:GetServiceConfigurationResponseMessageType"/>
```

#### 3.1.4.1.2.3 PolicyNudgeRulesConfiguration Element

The **PolicyNudgeRulesConfiguration** element specifies a set of DLP rules and rule classification definitions. [<1>](#)

```
<xs:element name="PolicyNudgeRulesConfiguration"
type="PolicyNudgeRulesConfigurationType" />
```



#### 3.1.4.1.2.4 rule Element

The **rule** element specifies a DLP rule. [<2>](#)

```
<xs:element name="rule" type="ruleType"/>
```

#### 3.1.4.1.2.5 mce:RulePackage Element

The **RulePackage** element specifies the root of the rule pack document. [<3>](#) A rule pack is a collection of rules (4) and associated resources, as specified in section [3.1.4.1.3.52](#).

```
<xs:element name="RulePackage" type="mce:RulePackageType"/>
```

#### 3.1.4.1.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to the **GetServiceConfiguration** WSDL operation, as specified in section [3.1.4.1](#).

Complex type	Description
<b>actionsType</b> (section <a href="#">3.1.4.1.3.1</a> )	Specifies the actions that a DLP rule can have.
<b>actionTypeType</b> (section <a href="#">3.1.4.1.3.2</a> )	Specifies the following items: <ul style="list-style-type: none"><li>▪ An optional URL to a compliance note</li><li>▪ A policy tip message</li><li>▪ Whether the classification rule can be overridden</li></ul>
<b>AffinityType</b> (section <a href="#">3.1.4.1.3.3</a> )	Specifies an affinity-based classification type.
<b>AnyType</b> (section <a href="#">3.1.4.1.3.4</a> )	Specifies a classification rule where, if any of the rule conditions are met, the rule condition is processed as a match.
<b>ApplyType</b> (section <a href="#">3.1.4.1.3.5</a> )	Specifies whether the client has to update its email policy rule set.
<b>ArrayOfProtectionRulesType</b> (section <a href="#">3.1.4.1.3.6</a> )	Specifies an array of protection rules.
<b>ArrayOfServiceConfigurationResponseMessageType</b> (section <a href="#">3.1.4.1.3.7</a> )	Specifies an array of service configuration response messages.
<b>ArrayOfServiceConfigurationType</b> (section <a href="#">3.1.4.1.3.8</a> )	Specifies the requested service configurations for a <b>GetServiceConfigurationSoapIn</b> WSDL message (section <a href="#">3.1.4.1.1.1</a> ).
<b>ClassificationDefinitionsType</b> (section <a href="#">3.1.4.1.3.9</a> )	Specifies the definitions used to classify messages.
<b>ClassificationDefinitionType</b> (section <a href="#">3.1.4.1.3.10</a> )	Specifies a single message classification

Complex type	Description
	definition.
<b>classificationType</b> (section <a href="#">3.1.4.1.3.11</a> )	Specifies a classification identifier.
<b>ConfigurationRequestDetailsType</b> (section <a href="#">3.1.4.1.3.12</a> )	Contains a request for details of the policy tips.
<b>DescriptionType</b> (section <a href="#">3.1.4.1.3.13</a> )	Specifies the description of a localized resource string.
<b>DetailsType</b> (section <a href="#">3.1.4.1.3.14</a> )	Specifies the localized description of a rule pack (section <a href="#">3.1.4.1.3.52</a> ).
<b>EncryptionType</b> (section <a href="#">3.1.4.1.3.15</a> )	Specifies the encryption key and initialization vector.
<b>EntityType</b> (section <a href="#">3.1.4.1.3.16</a> )	Specifies an entity classification type.
<b>EvidenceType</b> (section <a href="#">3.1.4.1.3.17</a> )	Specifies the classification rules for an affinity-based classification.
<b>GetServiceConfigurationResponseMessageType</b> (section <a href="#">3.1.4.1.3.18</a> )	Contains the response message for a <b>GetServiceConfiguration</b> WSDL operation.
<b>GetServiceConfigurationType</b> (section <a href="#">3.1.4.1.3.19</a> )	Specifies the requested service configurations and identifies the sender or impersonated user who is making the request.
<b>GroupType</b> (section <a href="#">3.1.4.1.3.20</a> )	Specifies the terms in a keyword-based rule.
<b>IdMatchType</b> (section <a href="#">3.1.4.1.3.21</a> )	Specifies an entity-based primary match rule.
<b>KeywordType</b> (section <a href="#">3.1.4.1.3.22</a> )	Specifies the terms and identifier of a keyword-based rule.
<b>localeType</b> (section <a href="#">3.1.4.1.3.23</a> )	Specifies the unique identifier of a keyword-based text processor.
<b>LocalizedDetailsType</b> (section <a href="#">3.1.4.1.3.24</a> )	Specifies the localized information about a rule pack.
<b>LocalizedStringsType</b> (section <a href="#">3.1.4.1.3.25</a> )	Specifies localized information about classification rules for both entity-based and affinity-based rules.
<b>MatchType</b> (section <a href="#">3.1.4.1.3.26</a> )	Specifies a classification rule match.
<b>MailTipsServiceConfiguration</b> (section <a href="#">3.1.4.1.3.27</a> )	Contains service configuration information for the mail tips service.
<b>orType</b> (section <a href="#">3.1.4.1.3.28</a> )	Specifies a logical <b>OR</b> for rule predicates.
<b>PatternType</b> (section <a href="#">3.1.4.1.3.29</a> )	Specifies the pattern for an entity classification.
<b>PolicyNudgeRulesServiceConfiguration</b> (section <a href="#">3.1.4.1.3.30</a> )	Contains the policy tip configuration data. <a href="#">&lt;4&gt;</a>

Complex type	Description
<b>PolicyNudgeRulesConfigurationType</b> (section <a href="#">3.1.4.1.3.31</a> )	Specifies the set of DLP rules and classification definitions that are sent to a client.
<b>PolicyNudgeRulesType</b> (section <a href="#">3.1.4.1.3.32</a> )	Specifies a collection of DLP rules.
<b>PolicyNudgeRuleType</b> (section <a href="#">3.1.4.1.3.33</a> )	Specifies a single DLP rule.
<b>predicateElementConstantType</b> (section <a href="#">3.1.4.1.3.34</a> )	Specifies the type of all constant rule predicates. All elements of this type <b>MUST</b> be empty.
<b>predicateElementMultipleChildType</b> (section <a href="#">3.1.4.1.3.35</a> )	Specifies multiple predicates and logical operators for a classification definition.
<b>predicateElementSingleChildType</b> (section <a href="#">3.1.4.1.3.36</a> )	Specifies a single predicate or logical operator for a classification definition.
<b>ProtectionRuleActionType</b> (section <a href="#">3.1.4.1.3.37</a> )	Specifies the action that the client can take if the condition part of the associated rule matches.
<b>ProtectionRuleAndType</b> (section <a href="#">3.1.4.1.3.38</a> )	Specifies that there <b>MUST</b> be more than one protection rule condition.
<b>ProtectionRuleArgumentType</b> (section <a href="#">3.1.4.1.3.39</a> )	Specifies an attribute that is used to specify an argument to an action.
<b>ProtectionRuleConditionType</b> (section <a href="#">3.1.4.1.3.40</a> )	Specifies the condition part of a protection rule.
<b>ProtectionRuleRecipientIsType</b> (section <a href="#">3.1.4.1.3.41</a> )	Specifies a condition that matches if any <b>recipients (1)</b> of the email message match any specified recipients (1) in the child <b>Value</b> elements.
<b>ProtectionRuleSenderDepartmentsType</b> (section <a href="#">3.1.4.1.3.42</a> )	Specifies a condition that matches if the department of the sender of the email message matches any of the specified departments in the child <b>Value</b> elements.
<b>ProtectionRulesServiceConfiguration</b> (section <a href="#">3.1.4.1.3.43</a> )	Specifies the configuration of the protection rules service.
<b>ProtectionRuleType</b> (section <a href="#">3.1.4.1.3.44</a> )	Specifies a single protection rule.
<b>PublisherType</b> (section <a href="#">3.1.4.1.3.45</a> )	Specifies the unique identifier of a rule pack publisher.
<b>recipientType</b> (section <a href="#">3.1.4.1.3.46</a> )	Specifies a recipient (1) in a classification definition. No more than one of the attributes in this type can be present.
<b>RegexType</b> (section <a href="#">3.1.4.1.3.47</a> )	Specifies a regular expression text processor.
<b>ResourceNameType</b> (section <a href="#">3.1.4.1.3.48</a> )	Specifies a localized name for a classification rule.

Complex type	Description
<b>ResourceType</b> (section <a href="#">3.1.4.1.3.49</a> )	Specifies the localized names and descriptions of a classification rule.
<b>RulePackageContainerType</b> (section <a href="#">3.1.4.1.3.50</a> )	Contains a single rule package.
<b>RulePackageType</b> (section <a href="#">3.1.4.1.3.51</a> )	Specifies the rule pack identifier and the set of classification definitions rules.
<b>RulePackType</b> (section <a href="#">3.1.4.1.3.52</a> )	Specifies the version, identifier, and publisher of a rule pack.
<b>ruleType</b> (section <a href="#">3.1.4.1.3.53</a> )	Specifies a DLP rule.
<b>RulesType</b> (section <a href="#">3.1.4.1.3.54</a> )	Specifies the rules collection in a rules package.
<b>senderType</b> (section <a href="#">3.1.4.1.3.55</a> )	Specifies a sender in a classification definition.
<b>ServiceConfiguration</b> (section <a href="#">3.1.4.1.3.56</a> )	Specifies the base type for the service configuration types.
<b>ServiceConfigurationResponseMessageType</b> (section <a href="#">3.1.4.1.3.57</a> )	Specifies service configuration settings.
<b>SmtpDomain</b> (section <a href="#">3.1.4.1.3.58</a> )	Specifies a single <b>domain</b> .
<b>SmtpDomainList</b> (section <a href="#">3.1.4.1.3.59</a> )	Specifies a list of internal domains in a user's organization.
<b>TermType</b> (section <a href="#">3.1.4.1.3.60</a> )	Specifies a term and whether the term is case-sensitive.
<b>UnifiedMessageServiceConfiguration</b> (section <a href="#">3.1.4.1.3.61</a> )	Specifies the configuration for the Unified Messaging service.
<b>VersionType</b> (section <a href="#">3.1.4.1.3.62</a> )	Specifies the rule pack version.
<b>versionType</b> (section <a href="#">3.1.4.1.3.63</a> )	Specifies the minimum client version that can use this rule and the rule conditions and actions.

### 3.1.4.1.3.1 actionsType Complex Type

The **actionsType** complex type specifies the actions that a DLP rule can have. [<5>](#)

```
<xs:complexType name="actionsType">
  <xs:choice maxOccurs="unbounded">
    <xs:element name="block" type="actionTypeType" />
    <xs:element name="notify" type="actionTypeType" />
  </xs:choice>
</xs:complexType>
```

The following table lists the child elements of the **actionsType** complex type.

Element	Type	Description
<b>block</b>	<b>actionTypeType</b> (section <a href="#">3.1.4.1.3.2</a> )	Specifies that if a rule condition is met, the server MUST block sending the message unless it is overridden by user input.
<b>notify</b>	<b>actionTypeType</b>	Specifies that if a rule condition is met, the client MUST notify the user about the policy violation in the form of a policy tip.

### 3.1.4.1.3.2 actionTypeType Complex Type

The **actionTypeType** complex type specifies the following items:

- An optional URL to a compliance note.
- A policy tip message.
- Whether the classification rule can be overridden. [<6>](#)

```
<xs:complexType name="actionTypeType">
  <xs:sequence>
    <xs:element name="message">
      <xs:complexType>
        <xs:sequence minOccurs="1" maxOccurs="unbounded">
          <xs:element name="locale" type="localeType" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="override">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="justification">
            <xs:complexType>
              <xs:attribute name="type" use="required">
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:enumeration value="none" />
                    <xs:enumeration value="optional" />
                    <xs:enumeration value="required" />
                  </xs:restriction>
                </xs:simpleType>
              </xs:attribute>
            </xs:complexType>
          </xs:element>
          <xs:sequence>
            <xs:attribute name="allow" type="yesnoType" use="required" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="falsePositive">
      <xs:complexType>
        <xs:attribute name="allow" type="yesnoType" use="required" />
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

The following table lists the child elements of the **actionTypeType** complex type.

Element	Type	Description
<b>message</b>		Contains the <b>locale</b> child element.
<b>locale</b>	<b>localeType</b> (section <a href="#">3.1.4.1.3.23</a> )	Specifies the local natural language identifier, an optional URL to a compliance note, policy tip messages, and an override text message.
<b>override</b>		Contains the <b>justification</b> child element and the <b>allow</b> attribute.
<b>justification</b>		Contains the <b>type</b> attribute.
<b>falsePositive</b>		Contains the <b>allow</b> attribute.

The following table lists the attributes of the **actionTypeType** complex type.

Attribute	Type	Description
<b>type</b>		Specifies whether an override justification is required. This attribute MUST be present.
<b>allow</b>	<b>yesnoType</b> (section <a href="#">3.1.4.1.4.16</a> )	In the <b>override</b> element, this attribute specifies whether a rule can be overridden. This attribute MUST be present. The client MUST ignore this value if the <b>notify</b> element (section <a href="#">3.1.4.1.3.1</a> ) is present. In the <b>falsePositive</b> element, this attribute specifies whether a false positive reporting is allowed. This attribute MUST be present.

### 3.1.4.1.3.3 mce:AffinityType Complex Type

The **AffinityType** complex type specifies an affinity-based classification type. [<7>](#)

```
<xs:complexType name="AffinityType">
  <xs:sequence>
    <xs:element name="Evidence" type="mce:EvidenceType" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="id" type="mce:GuidType" use="required"/>
  <xs:attribute name="evidencesProximity" type="mce:ProximityType" use="required"/>
  <xs:attribute name="thresholdConfidenceLevel" type="mce:ProbabilityType" use="required"/>
  <xs:attribute name="workload" type="mce:WorkloadType"/>
</xs:complexType>
```

The following table lists the child elements of the **AffinityType** complex type.

Element	Type	Description
<b>Evidence</b>	<b>mce:EvidenceType</b> (section <a href="#">3.1.4.1.3.17</a> )	Specifies the rules that are matched for an affinity-based classification.

The following table lists the attributes of the **AffinityType** complex type.

Attribute	Type	Description
<b>id</b>	<b>mce:GuidType</b> (section <a href="#">3.1.4.1.4.1</a> )	Specifies the rule identifier. This attribute MUST be present.

Attribute	Type	Description
<b>evidencesProximity</b>	<b>mce:ProximityType</b> (section <a href="#">3.1.4.1.4.11</a> )	Specifies the proximity value used by the classification engine. This attribute <b>MUST</b> be present.
<b>thresholdConfidenceLevel</b>	<b>mce:ProbabilityType</b> (section <a href="#">3.1.4.1.4.10</a> )	Specifies the confidence level threshold used by the classification engine to trigger an action. This attribute <b>MUST</b> be present.
<b>workload</b>	<b>mce:WorkloadType</b> (section <a href="#">3.1.4.1.4.15</a> )	This attribute is not used.

#### 3.1.4.1.3.4 mce:AnyType Complex Type

The **AnyType** complex type specifies a classification rule where, if any of the rule conditions are met, then the rule condition is processed as a match. [<8>](#)

```
<xs:complexType name="AnyType">
  <xs:sequence>
    <xs:choice maxOccurs="unbounded">
      <xs:element name="Match" type="mce:MatchType"/>
      <xs:element name="Any" type="mce:AnyType"/>
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="minMatches" type="xs:nonNegativeInteger" default="1"/>
  <xs:attribute name="maxMatches" type="xs:nonNegativeInteger" use="optional"/>
</xs:complexType>
```

The following table lists the child elements of the **AnyType** complex type.

Element	Type	Description
<b>Match</b>	<b>mce:MatchType</b> (section <a href="#">3.1.4.1.3.26</a> )	Specifies a single classification rule to match. This element can occur zero or more times.
<b>Any</b>	<b>mce:AnyType</b> (section <a href="#">3.1.4.1.3.4</a> )	Specifies two or more classification rules to match. This element can occur zero or more times.

The following table lists the attributes of the **AnyType** complex type.

Attribute	Type	Description
<b>minMatches</b>	<b>xs:nonNegativeInteger</b> ( <a href="#">XMLSCHEMA2</a> section 3.3.20)	Specifies the minimum number of rule matches required to indicate that a rule condition has been met. The default value is 1.
<b>maxMatches</b>	<b>xs:nonNegativeInteger</b>	Specifies the maximum number of rule matches required to indicate that a rule condition has been met.

#### 3.1.4.1.3.5 ApplyType Complex Type

The **ApplyType** complex type specifies whether the client has to update its email policy rule set. [<9>](#)

```

<xs:complexType name="ApplyType">
  <xs:attribute name="apply" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="([Tt][Rr][Uu][Ee])|([Ff][Aa][Ll][Ss][Ee])" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>

```

The following table lists the attribute of the **ApplyType** complex type.

Attribute	Type	Description
<b>apply</b>	<b>xs:simpleType</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.2)	Specifies whether the client can update its rule set. If the value is "false", the client MUST NOT update its rule set. If the value is "true", the client MUST update rule set. If the value is "true" and the <b>PolicyNudgeRules</b> element (section <a href="#">3.1.4.1.3.31</a> ) or the <b>ClassificationDefinitions</b> element (section <a href="#">3.1.4.1.3.31</a> ) is empty, the client MUST remove all rules.  The possible values for the <b>apply</b> attribute are "true" and "false." The values are not case sensitive.

### 3.1.4.1.3.6 t:ArrayOfProtectionRulesType Complex Type

The **ArrayOfProtectionRulesType** complex type specifies an array of protection rules.

```

<xs:complexType name="ArrayOfProtectionRulesType">
  <xs:sequence>
    <xs:element name="Rule"
      type="t:ProtectionRuleType"
      minOccurs="0"
      maxOccurs="unbounded"
    />
  </xs:sequence>
</xs:complexType>

```

The following table lists the child element of the **ArrayOfProtectionRulesType** complex type.

Element	Type	Description
<b>Rule</b>	<b>t:ProtectionRuleType</b> (section <a href="#">3.1.4.1.3.44</a> )	Contains a single protection rule. This element can occur zero or more times. This element occurs zero times when no protection rules are defined by the organization. It occurs one or more times if at least one rule is defined by the organization.

### 3.1.4.1.3.7 m:ArrayOfServiceConfigurationResponseMessageType Complex Type

The **ArrayOfServiceConfigurationResponseMessageType** complex type specifies an array of service configuration response messages.

```

<xs:complexType name="ArrayOfServiceConfigurationResponseMessageType">

```



```

<xs:sequence>
  <xs:element name="ServiceConfigurationResponseMessageType"
    type="m:ServiceConfigurationResponseMessageType"
    maxOccurs="unbounded"
    minOccurs="1"
  />
</xs:sequence>
</xs:complexType>

```

The following table lists the child element of the **ArrayOfServiceConfigurationResponseMessageType** complex type.

Element	Type	Description
<b>ServiceConfigurationResponseMessageType</b>	<b>m:ServiceConfigurationResponseMessageType</b> (section <a href="#">3.1.4.1.3.57</a> )	Contains a service configuration response message. This element <b>MUST</b> occur at least once and can occur two or more times.

### 3.1.4.1.3.8 m:ArrayOfServiceConfigurationType Complex Type

The **ArrayOfServiceConfigurationType** complex type specifies the requested service configurations for a **GetServiceConfigurationSoapIn** WSDL message, as specified in section [3.1.4.1.1.1](#).

```

<xs:complexType name="ArrayOfServiceConfigurationType">
  <xs:choice
    maxOccurs="unbounded"
    minOccurs="1"
  >
    <xs:element name="ConfigurationName"
      type="t:ServiceConfigurationType"
    />
  </xs:choice>
</xs:complexType>

```

The following table lists the child element of the **ArrayOfServiceConfigurationType** complex type.

Element	Type	Description
<b>ConfigurationName</b>	<b>t:ServiceConfigurationType</b> (section <a href="#">3.1.4.1.4.14</a> )	Specifies the service configuration that is returned in the response. This simple

Element	Type	Description
		type MUST occur at least once.

### 3.1.4.1.3.9 ClassificationDefinitionsType Complex Type

The **ClassificationDefinitionsType** complex type specifies the definitions used to classify messages. This type extends the **ApplyType** complex type, as specified in section [3.1.4.1.3.5.<10>](#)

```
<xs:complexType name="ClassificationDefinitionsType">
  <xs:complexContent>
    <xs:extension base="ApplyType">
      <xs:sequence>
        <xs:element name="ClassificationDefinition"
          type="ClassificationDefinitionType"
          minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table describes the child element of the **ClassificationDefinitionsType** complex type.

Element	Type	Description
<b>ClassificationDefinition</b>	<b>ClassificationDefinitionType</b> (section <a href="#">3.1.4.1.3.10</a> )	Specifies a single rule package. This element can occur zero or more times. If this element is not present and the <b>apply</b> attribute (section <a href="#">3.1.4.1.3.5</a> ) is set to "true", the client MUST delete all classification definitions. If this element is present, the client MUST apply all the classification definitions.

### 3.1.4.1.3.10 ClassificationDefinitionType Complex Type

The **ClassificationDefinitionType** complex type specifies a single message classification definition. This type extends the **RulePackageContainerType** complex type, as specified in section [3.1.4.1.3.50.<11>](#)

```
<xs:complexType name="ClassificationDefinitionType">
  <xs:complexContent>
    <xs:extension base="mce:RulePackageContainerType">
      <xs:attribute name="id" type="xs:string" use="required" />
      <xs:attribute name="version" type="xs:long" use="required" />
      <xs:anyAttribute processContents="skip" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table lists the attributes of the **ClassificationDefinitionType** complex type.

Attribute	Type	Description
<b>id</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	Specifies the classification definition identifier. This attribute MUST be present.
<b>version</b>	<b>xs:long</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.16)	Specifies the classification definition version. This attribute MUST be present.
	<b>xs:anyAttribute</b> ( <a href="#">[XMLSCHEMA1]</a> section 3.10)	Indicates that the server can send non-predefined attributes in a response to the client. The client MUST send back the same attributes in subsequent requests.

#### 3.1.4.1.3.11 classificationType Complex Type

The **classificationType** complex type specifies a classification identifier. [<12>](#)

```
<xs:complexType name="classificationType">
  <xs:attribute name="rulePackId" type="xs:string" use="required" />
  <xs:attribute name="id" type="xs:string" use="required" />
  <xs:attribute name="minCount" type="xs:integer" use="optional" />
  <xs:attribute name="maxCount" type="xs:integer" use="optional" />
  <xs:attribute name="minConfidence" type="xs:integer" use="optional" />
  <xs:attribute name="maxConfidence" type="xs:integer" use="optional" />
</xs:complexType>
```

The following table lists the attributes of the **classificationType** complex type.

Attribute	Type	Description
<b>rulePackId</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	Specifies the rule pack identifier. This attribute MUST be present.
<b>id</b>	<b>xs:string</b>	Specifies the classification identifier. This attribute MUST be present.
<b>minCount</b>	<b>xs:integer</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.13)	Specifies the minimum count. This attribute is optional.
<b>maxCount</b>	<b>xs:integer</b>	Specifies the maximum count. This attribute is optional.
<b>minConfidence</b>	<b>xs:integer</b>	Specifies the minimum confidence. This attribute is optional.
<b>maxConfidence</b>	<b>xs:integer</b>	Specifies the maximum confidence. This attribute is optional.

#### 3.1.4.1.3.12 t:ConfigurationRequestDetailsType

The **ConfigurationRequestDetailsType** complex type contains a request for details of the policy tips. [<13>](#)

```
<xs:complexType name="ConfigurationRequestDetailsType">
  <xs:choice minOccurs="1" maxOccurs="1">
    <xs:any processContents="skip" minOccurs="0" maxOccurs="unbounded"
      namespace="##any"/>
  </xs:choice>
</xs:complexType>
```

```

    </xs:choice>
  </xs:complexType>

```

The **ConfigurationRequestDetailsType** complex type contains an XML schema **any** element definition, as specified in [\[XMLSCHEMA1\]](#) section 3.10.2, that **MUST** contain an element called **PolicyNudges**. The **PolicyNudges** element can contain attributes called **OutlookVersion** and **OutlookLocale**. Values for the **OutlookVersion** attribute are ignored by the server. The **OutlookVersion** attribute can contain the client's version number. The **OutlookLocale** attribute can contain the client's culture-specific natural language code, as specified in [\[RFC4646\]](#). The **OutlookLocale** **MUST** be set. The response value of the **text2** element in the **localeType** complex type, as specified in section [3.1.4.1.3.23](#), is localized according to the value of the **OutlookLocale** attribute value. The **PolicyNudges** element can contain a **PolicyNudgeRules** element and a **ClassificationItems** element. The **PolicyNudgeRules** element is specified in section [3.1.4.1.3.31](#). The **ClassificationItems** element contains a **ClassificationDefinitions** element, as specified in section [3.1.4.1.3.31](#). The **ClassificationItems** element can have an **EngineVersion** attribute. The **EngineVersion** attribute can contain the version number of the client classification library. The value of the **EngineVersion** attribute is ignored by the server.

If the **ConfigurationRequestDetailsType** complex type is empty, no **OutlookVersion** or **EngineVersion** attributes will be present, the **OutlookLocale** attribute will be set to "en-US", and the **PolicyNudgeRule** and **ClassificationDefinition** elements will not be present.

### 3.1.4.1.3.13 mce:DescriptionType Complex Type

The **DescriptionType** complex type specifies the description of a localized resource string. [<14>](#)

```

<xs:complexType name="DescriptionType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="default" type="xs:boolean" default="false"/>
      <xs:attribute name="langcode" type="mce:LangType" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

```

The following table lists the attributes of the **DescriptionType** complex type.

Attribute	Type	Description
<b>default</b>	<b>xs:boolean</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.2)	Specifies the rule pack identifier. This attribute has a default value of "false".
<b>langcode</b>	<b>mce:LangType</b> (section <a href="#">3.1.4.1.4.2</a> )	Specifies the language identifier, as specified in <a href="#">[RFC4646]</a> . This attribute <b>MUST</b> be present.

### 3.1.4.1.3.14 mce:DetailsType Complex Type

The **DetailsType** complex type specifies the localized description of a rule pack. [<15>](#)

```

<xs:complexType name="DetailsType">
  <xs:sequence>
    <xs:element name="LocalizedDetails" type="mce:LocalizedDetailsType"
      maxOccurs="unbounded"/>
  </xs:sequence>

```

```
<xs:attribute name="defaultLangCode" type="mce:LangType" use="required"/>
</xs:complexType>.
```

The following table lists the child element of the **DetailsType** complex type.

Element	Type	Description
<b>LocalizedDetails</b>	<b>mce:LocalizedDetailsType</b> (section <a href="#">3.1.4.1.3.24</a> )	Specifies the localized information about a rule pack (section <a href="#">3.1.4.1.3.52</a> ).

The following table lists the attribute of the **DetailsType** complex type.

Attribute	Type	Description
<b>defaultLangCode</b>	<b>mce:LangType</b> (section <a href="#">3.1.4.1.4.2</a> )	Specifies the language identifier, as specified in <a href="#">[RFC4646]</a> , that MUST be used if the requested localized rule pack information is not available. This attribute MUST be present.

### 3.1.4.1.3.15 mce:EncryptionType Complex Type

The **EncryptionType** complex type specifies the encryption key and initialization vector. [<16>](#)

```
<xs:complexType name="EncryptionType">
  <xs:sequence>
    <xs:element name="Key" type="xs:normalizedString"/>
    <xs:element name="IV" type="xs:normalizedString"/>
  </xs:sequence>
</xs:complexType>
```

The following table lists the child elements of the **EncryptionType** complex type.

Element	Type	Description
<b>Key</b>	<b>xs:normalizedString</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.1)	Specifies the encryption key.
<b>IV</b>	<b>xs:normalizedString</b>	Specifies the encryption initialization vector.

### 3.1.4.1.3.16 mce:EntityType Complex Type

The **EntityType** complex type specifies an entity classification type. [<17>](#)

```
<xs:complexType name="EntityType">
  <xs:sequence>
    <xs:element name="Pattern" type="mce:PatternType" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="id" type="mce:GuidType" use="required"/>
  <xs:attribute name="patternsProximity" type="mce:ProximityType" use="required"/>
  <xs:attribute name="recommendedConfidence" type="mce:ProbabilityType"/>
  <xs:attribute name="workload" type="mce:WorkloadType"/>
</xs:complexType>.
```

The following table lists the child element of the **EntityType** complex type.

Element	Type	Description
<b>Pattern</b>	<b>mce:PatternType</b> (section <a href="#">3.1.4.1.3.29</a> )	Specifies the classification rules (4) that are matched for an entity-based classification.

The following table lists the attributes of the **EntityType** complex type.

Attribute	Type	Description
<b>id</b>	<b>mce:GuidType</b> (section <a href="#">3.1.4.1.4.1</a> )	Specifies the rule identifier. This attribute <b>MUST</b> be present.
<b>patternsProximity</b>	<b>mce:ProximityType</b> (section <a href="#">3.1.4.1.4.11</a> )	Specifies the proximity value between the primary match, as represented by the <b>IdMatch</b> element, as specified in section <a href="#">3.1.4.1.3.29</a> , and corroborative evidence matches, as specified by the classification engine. This attribute <b>MUST</b> be present.
<b>recommendedConfidence</b>	<b>mce:ProbabilityType</b> (section <a href="#">3.1.4.1.4.10</a> )	Specifies the confidence level threshold used by the classification engine to trigger an action. This attribute <b>MUST</b> be present.
<b>workload</b>	<b>mce:WorkloadType</b> (section <a href="#">3.1.4.1.4.15</a> )	This attribute is not used.

### 3.1.4.1.3.17 mce:EvidenceType Complex Type

The **EvidenceType** complex type specifies the classification rules for an affinity-based classification. [<18>](#)

```
<xs:complexType name="EvidenceType">
  <xs:sequence>
    <xs:choice maxOccurs="unbounded">
      <xs:element name="Match" type="mce:MatchType"/>
      <xs:element name="Any" type="mce:AnyType"/>
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="confidenceLevel" type="mce:ProbabilityType" use="required"/>
</xs:complexType>
```

The following table lists the child elements of the **EvidenceType** complex type.

Element	Type	Description
<b>Match</b>	<b>mce:MatchType</b> (section <a href="#">3.1.4.1.3.26</a> )	Specifies a single classification rule to match. This element can occur zero or more times.
<b>Any</b>	<b>mce:AnyType</b> (section <a href="#">3.1.4.1.3.4</a> )	Specifies two or more classification rules to match. This element can occur zero or more times.

The following table lists the attribute of the **EvidenceType** complex type.

Attribute	Type	Description
<b>confidenceLevel</b>	<b>mce:ProbabilityType</b> (section <a href="#">3.1.4.1.4.10</a> )	Specifies the probability of a match. This attribute MUST be present.

### 3.1.4.1.3.18 m:GetServiceConfigurationResponseMessageType Complex Type

The **GetServiceConfigurationResponseMessageType** complex type contains the response message for a **GetServiceConfiguration** WSDL operation. This type extends the **ResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57.

```
<xs:complexType name="GetServiceConfigurationResponseMessageType">
  <xs:complexContent>
    <xs:extension
      base="m:ResponseMessageType"
    >
      <xs:sequence>
        <xs:element name="ResponseMessages"
          type="m:ArrayOfServiceConfigurationResponseMessageType"
          minOccurs="0"
          maxOccurs="1"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table lists the child elements of the **GetServiceConfigurationResponseMessageType** complex type.

Element	Type	Description
<b>ResponseMessages</b>	<b>m:ArrayOfServiceConfigurationResponseMessageType</b> (section <a href="#">3.1.4.1.3.7</a> )	Contains an array of service configuration response messages. This element MUST occur if there are configuration settings.

### 3.1.4.1.3.19 m:GetServiceConfigurationType Complex Type

The **GetServiceConfigurationType** complex type specifies the requested service configurations and identifies the sender or impersonated sender who is making the request. The impersonated sender can be different from the user account that authenticated with the server. This type extends the **m:BaseRequestType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.15.

```
<xs:complexType name="GetServiceConfigurationType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseRequestType"
    >

```

```

<xs:sequence>
  <xs:element name="ActingAs"
    type="t:EmailAddressType"
    maxOccurs="1"
    minOccurs="0"
  />
  <xs:element name="RequestedConfiguration"
    type="m:ArrayOfServiceConfigurationType"
    maxOccurs="1"
    minOccurs="1"
  />
  <xs:element minOccurs="0" maxOccurs="1" name="ConfigurationRequestDetails"
type="t:ConfigurationRequestDetailsType" />
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

The following table lists the child elements of the **GetServiceConfigurationType** complex type.

Element	Type	Description
<b>ActingAs</b>	<b>t:EmailAddressType</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.27)	Specifies who the caller is sending as in the case of an impersonation scenario.  If this element is not present, the authenticated user is assumed to be the sender.  The <b>ActingAs</b> element <b>MUST</b> be included for requesting mail tips. Otherwise, this element is optional.
<b>RequestedConfiguration</b>	<b>m:ArrayOfServiceConfigurationType</b> (section <a href="#">3.1.4.1.3.8</a> )	Specifies the requested service configurations. This element <b>MUST</b> be present.
<b>ConfigurationRequestDetails</b>	<b>t:ConfigurationRequestDetailsType</b> (section <a href="#">3.1.4.1.3.12</a> )	Specifies the request for DLP details. <a href="#">&lt;19&gt;</a>

### 3.1.4.1.3.20 mce:GroupType Complex Type

The **GroupType** complex type specifies the terms in a keyword-based rule. [<20>](#)

```

<xs:complexType name="GroupType">
  <xs:sequence>
    <xs:choice>
      <xs:element name="Term" type="mce:TermType" maxOccurs="unbounded"/>
    </xs:choice>
  </xs:sequence>
</xs:complexType>

```



```

<xs:attribute name="matchStyle" default="word">
  <xs:simpleType>
    <xs:restriction base="xs:NMTOKEN">
      <xs:enumeration value="word"/>
      <xs:enumeration value="string"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

The following table lists the child element of the **GroupType** complex type.

Element	Type	Description
<b>Term</b>	<b>mce:TermType</b> (section <a href="#">3.1.4.1.3.60</a> )	Specifies a term and whether the term is case-sensitive. The term <b>MUST</b> be between 1 and 100 characters in length. One or more <b>Term</b> elements can be present.

The following table lists the attribute of the **GroupType** complex type.

Attribute	Type	Description
<b>matchStyle</b>	<b>xs:simpleType</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.2)	Specifies whether the match of the rule (4) condition and <b>Message object</b> is based on a word or a string. The following are the possible values for this attribute: word string The default value is "word". A word match is based on an entire word; a string match is based on a match of a substring of the string.

### 3.1.4.1.3.21 mce:IdMatchType Complex Type

The **IdMatchType** complex type specifies an entity-based primary match rule.[<21>](#)

```

<xs:complexType name="IdMatchType">
  <xs:attribute name="idRef" type="xs:string" use="required"/>
</xs:complexType>

```

The following table lists the attribute of the **IdMatchType** complex type.

Attribute	Type	Description
<b>idRef</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	Specifies a text processor identifier.

### 3.1.4.1.3.22 mce:KeywordType Complex Type

The **KeywordType** complex type specifies the terms and identifier of a keyword-based rule.[<22>](#)

```

<xs:complexType name="KeywordType">
  <xs:sequence>
    <xs:element name="Group" type="mce:GroupType" maxOccurs="unbounded"/>
  </xs:sequence>

```

```
<xs:attribute name="id" type="xs:token" use="required"/>
</xs:complexType>
```

The following table lists the child element of the **KeywordType** complex type.

Element	Type	Description
<b>Group</b>	<b>mce:GroupType</b> (section <a href="#">3.1.4.1.3.20</a> )	Specifies a group of terms in a keyword-based text processor.

The following table lists the attribute of the **KeywordType** complex type.

Attribute	Type	Description
<b>id</b>	<b>xs:token</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.2)	Specifies the unique identifier of a keyword-based text processor.

### 3.1.4.1.3.23 localeType Complex Type

The **localeType** complex type specifies the unique identifier of a keyword-based text processor. [<23>](#)

```
<xs:complexType name="localeType">
  <xs:sequence>
    <xs:element name="complianceNoteUrl" type="xs:anyURI" nillable="true" />
    <xs:element name="text1" type="xs:string" />
    <xs:element name="text2" type="xs:string" />
    <xs:element name="overrideText" type="xs:string" />
    <xs:element name="text3" type="xs:string" />
  </xs:sequence>
  <xs:attribute name="name" type="xs:language" use="required" />
</xs:complexType>
```

The following table lists the child elements of the **localeType** complex type.

Element	Type	Description
<b>complianceNoteUrl</b>	<b>xs:anyURI</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.17)	Specifies the URL of a compliance note.
<b>text1</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	This element is not used.
<b>text2</b>	<b>xs:string</b>	Specifies a policy tip message.
<b>overrideText</b>	<b>xs:string</b>	This element is not used.
<b>text3</b>	<b>xs:string</b>	This element is not used.

The following table lists the attribute of the **localeType** complex type.

Attribute	Type	Description
<b>name</b>	<b>xs:language</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.3)	Specifies the language identifier for the <b>localeType</b> complex type.

### 3.1.4.1.3.24 mce:LocalizedDetailsType Complex Type

The **LocalizedDetailsType** complex type specifies the localized information about a rule pack. [<24>](#)

```
<xs:complexType name="LocalizedDetailsType">
  <xs:sequence>
    <xs:element name="PublisherName" type="mce:NameType"/>
    <xs:element name="Name" type="mce:RulePackNameType"/>
    <xs:element name="Description" type="mce:OptionalNameType"/>
  </xs:sequence>
  <xs:attribute name="langcode" type="mce:LangType" use="required"/>
</xs:complexType>
```

The following table lists the child elements of the **LocalizedDetailsType** complex type.

Element	Type	Description
<b>PublisherName</b>	<b>mce:NameType</b> (section <a href="#">3.1.4.1.4.4</a> )	Specifies the name of the rules pack publisher.
<b>Name</b>	<b>mce:RulePackNameType</b> (section <a href="#">3.1.4.1.4.13</a> )	Specifies the name of a rule pack.
<b>Description</b>	<b>mce:OptionalNameType</b> (section <a href="#">3.1.4.1.4.5</a> )	Specifies the rule pack description.

The following table lists the attribute of the **LocalizedDetailsType** complex type.

Attribute	Type	Description
<b>langcode</b>	<b>mce:LangType</b> (section <a href="#">3.1.4.1.4.2</a> )	Specifies the language identifier for the <b>LocalizedDetailsType</b> complex type.

### 3.1.4.1.3.25 mce:LocalizedStringsType Complex Type

The **LocalizedStringsType** complex type specifies localized information about classification rules for both entity-based and affinity-based rules. [<25>](#)

```
<xs:complexType name="LocalizedStringsType">
  <xs:sequence>
    <xs:element name="Resource" type="mce:ResourceType" maxOccurs="unbounded">
      <xs:key name="UniqueLangCodeUsedInNamePerResource">
        <xs:selector xpath="mce:Name"/>
        <xs:field xpath="@langcode"/>
      </xs:key>
      <xs:key name="UniqueLangCodeUsedInDescriptionPerResource">
        <xs:selector xpath="mce:Description"/>
        <xs:field xpath="@langcode"/>
      </xs:key>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

The following table lists the child elements of the **LocalizedStringsType** complex type.

Element	Type	Description
<b>Resource</b>	<b>mce:ResourceType</b> (section <a href="#">3.1.4.1.3.49</a> )	Specifies localized information about entity-based and affinity-based based classification rules. Only one <b>Resource</b> element per unique entity or affinity MUST exist, and the language code used in the <b>Name</b> and <b>Description</b> elements of the <b>ResourceType</b> complex type MUST be unique per <b>Resource</b> element.

### 3.1.4.1.3.26 mce:MatchType Complex Type

The **MatchType** complex type specifies a classification rule match. [<26>](#)

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

The following table lists the attribute of the **MatchType** complex type.

Attribute	Type	Description
<b>idRef</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	Specifies a text processor identifier. This attribute MUST be present.

### 3.1.4.1.3.27 t:MailTipsServiceConfiguration Complex Type

The **MailTipsServiceConfiguration** complex type contains service configuration information for the mail tips service. This complex type extends the **ServiceConfiguration** complex type, as specified in section [3.1.4.1.3.56](#).

```
<xs:complexType name="MailTipsServiceConfiguration">
  <xs:complexContent>
    <xs:extension base="t:ServiceConfiguration">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="MailTipsEnabled"
          type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1"
          name="MaxRecipientsPerGetMailTipsRequest" type="xs:int"/>
        <xs:element minOccurs="1" maxOccurs="1" name="MaxMessageSize"
          type="xs:int"/>
        <xs:element minOccurs="1" maxOccurs="1" name="LargeAudienceThreshold"
          type="xs:int"/>
        <xs:element minOccurs="1" maxOccurs="1" name="ShowExternalRecipientCount"
          type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1" name="InternalDomains"
          type="t:SmtptDomainList"/>
        <xs:element minOccurs="1" maxOccurs="1" name="PolicyTipsEnabled"
          type="xs:boolean" />
        <xs:element minOccurs="1" maxOccurs="1" name="LargeAudienceCap"
          type="xs:int" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table lists the child elements of the **MailTipsServiceConfiguration** complex type.

Element	Type	Description
<b>MailTipsEnabled</b>	<b>xs:boolean</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.2)	Specifies whether the mail tips service is available. A text value of "true" indicates that mail tips are enabled. This element <b>MUST</b> be present.
<b>MaxRecipientsPerGetMailTipsRequest</b>	<b>xs:int</b> ( <a href="#">XMLSCHEMA2</a> section 3.3.17)	Specifies the maximum number of recipients (1) that can be passed to the <b>GetMailTips</b> WSDL operation ( <a href="#">MS-OXWMT</a> section 3.1.4.1). This element <b>MUST</b> be included if the <b>MailTipsServiceConfiguration</b> complex type is used and <b>MUST</b> be a non-negative integer, as specified in <a href="#">XMLSCHEMA2</a> section 3.3.20.
<b>MaxMessageSize</b>	<b>xs:int</b>	Specifies the maximum message size that the user identified by the <b>ActingAs</b> element of the <b>GetServiceConfigurationType</b> complex type (section <a href="#">3.1.4.1.3.19</a> ) can send.  This element <b>MUST</b> be included if the <b>MailTipsServiceConfiguration</b> complex type is used and <b>MUST</b> be a non-negative integer.
<b>LargeAudienceThreshold</b>	<b>xs:int</b>	Specifies the large audience threshold for clients.  This element <b>MUST</b> be included if the <b>MailTipsServiceConfiguration</b> complex type is used and <b>MUST</b> be a non-negative integer.
<b>ShowExternalRecipientCount</b>	<b>xs:boolean</b>	Specifies whether clients that are using the <b>GetMailTips</b> WSDL operation have to show mail tips that indicate the number of external recipients (1) to which a message is addressed. A text value of "true" indicates that clients have to show mail tips.  This element <b>MUST</b> be included if the <b>MailTipsServiceConfiguration</b> complex type is used.
<b>InternalDomains</b>	<b>t:SmtpDomainList</b> (section <a href="#">3.1.4.1.3.59</a> )	Specifies a list of <b>Simple Mail Transfer Protocol (SMTP)</b> domains that are internal to an organization. This information is provided so that mail client software can provide external recipient (1) mail tips when offline.  This element <b>MUST</b> be included if the <b>MailTipsServiceConfiguration</b>

Element	Type	Description
		complex type is used.
<b>PolicyTipsEnabled</b>	<b>xs:boolean</b>	Specifies whether policy tips are enabled.<27> A text value of "true" indicates that policy tips are enabled.
<b>LargeAudienceCap</b>	<b>xs:int</b>	Specifies the maximum number of recipients (1) for a mailbox item.<28>

### 3.1.4.1.3.28 orType Complex Type

The **orType** complex type specifies a logical **OR** for rule predicates. This type extends the **predicateElementMultipleChildType** complex type, as specified in section [3.1.4.1.3.35.<29>](#)

```
<xs:complexType name="orType">
  <xs:complexContent>
    <xs:extension base="predicateElementMultipleChildType">
      <xs:attribute name="earlyOut" use="optional">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <!-- Case insensitive: true, yes, y, 1, false, no, n, 0-->
            <xs:pattern
              value="([Tt][Rr][Uu][Ee])|([Yy]([Ee][Ss])?)|([1])|
                ([Ff][Aa][Ll][Ss][Ee])|([Nn][Oo]?)|([0])" />
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table lists the attribute of the **orType** complex type

Attribute	Type	Description
<b>earlyOut</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	Specifies whether the logical <b>OR</b> acts as an early out operator. This attribute is optional. The following are the valid values for this attribute: true yes y 1 false no n 0  The early out operator can be used to capture additional information after the <b>OR</b> operator evaluates to <b>true</b> .

### 3.1.4.1.3.29 mce:PatternType Complex Type

The **PatternType** complex type specifies the pattern for an entity classification. [<30>](#)

```
<xs:complexType name="PatternType">
  <xs:sequence>
    <xs:element name="IdMatch" type="mce:IdMatchType"/>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element name="Match" type="mce:MatchType"/>
      <xs:element name="Any" type="mce:AnyType"/>
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="confidenceLevel" type="mce:ProbabilityType" use="required"/>
</xs:complexType>
```

The following table lists the child elements of the **PatternType** complex type.

Element	Type	Description
<b>IdMatch</b>	<b>mce:IdMatchType</b> (section <a href="#">3.1.4.1.3.21</a> )	Specifies an identifier of a text processor that is used as the primary match for this entity-based classification rule. This element <b>MUST</b> be present.
<b>Match</b>	<b>mce:MatchType</b> (section <a href="#">3.1.4.1.3.26</a> )	Specifies a corroborative evidence match.
<b>Any</b>	<b>mce:AnyType</b> (section <a href="#">3.1.4.1.3.4</a> )	Specifies one or more corroborative evidence matches where if any of the corroborative evidences are matched, then the rule condition is processed as a match.

The following table lists the attribute of the **PatternType** complex type.

Attribute	Type	Description
<b>confidenceLevel</b>	<b>mce:ProbabilityType</b> (section <a href="#">3.1.4.1.4.10</a> )	Specifies the confidence level for this entity when the pattern is matched by the classification engine. This attribute is required.

### 3.1.4.1.3.30 t:PolicyNudgeRulesServiceConfiguration Complex Type

The **PolicyNudgeRulesServiceConfiguration** complex type contains the DLP configuration data. The top-level element defined by the **any** element definition is the **PolicyNudgeRulesConfiguration** element, as specified in section [3.1.4.1.2.3.<31>](#)

```
<xs:complexType name="PolicyNudgeRulesServiceConfiguration">
  <xs:sequence>
    <xs:any processContents="skip" minOccurs="0" maxOccurs="unbounded"
      namespace="##any"/>
  </xs:sequence>
</xs:complexType>
```

### 3.1.4.1.3.31 PolicyNudgeRulesConfigurationType Complex Type

The **PolicyNudgeRulesConfigurationType** complex type specifies the set of DLP rules and classification definitions that are sent to a client. [<32>](#)

```

<xs:complexType name="PolicyNudgeRulesConfigurationType">
  <xs:sequence>
    <xs:element name="PolicyNudgeRules" type="PolicyNudgeRulesType">
      <!-- Ensure that 2 DLP rules (rule) don't have the same name -->
      <xs:unique name="ruleNameUnique">
        <xs:selector xpath="PolicyNudgeRule/rule" />
        <xs:field xpath="@name"/>
      </xs:unique>
      <!-- Ensure that 2 DLP rule envelopes (PolicyNudgeRule) don't have
        the same id -->
      <xs:unique name="policyNudgeRuleIDUnique">
        <xs:selector xpath="PolicyNudgeRule" />
        <xs:field xpath="@id"/>
      </xs:unique>
    </xs:element>
    <xs:element name="ClassificationDefinitions"
      type="ClassificationDefinitionsType">
      <!-- Ensure that 2 Classification Definition envelopes
        (ClassificationDefinition) don't have the same id -->
      <xs:unique name="classificationDefinitionIDUnique">
        <xs:selector xpath="ClassificationDefinition" />
        <xs:field xpath="@id"/>
      </xs:unique>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

The following table lists the child elements of the **PolicyNudgeRulesConfigurationType** complex type.

Element	Type	Description
<b>PolicyNudgeRules</b>	<b>mce:PolicyNudgeRulesType</b> (section <a href="#">3.1.4.1.3.32</a> )	Specifies a collection of DLP rules. Each DLP rule MUST have a unique name and identifier.
<b>ClassificationDefinitions</b>	<b>ClassificationDefinitionsType</b> (section <a href="#">3.1.4.1.3.9</a> )	Specifies a collection of classification definitions. Each classification definition MUST have a unique identifier.

### 3.1.4.1.3.32 mce:PolicyNudgeRulesType Complex Type

The **PolicyNudgeRulesType** complex type specifies a collection of DLP rules. This complex type extends the **ApplyType** complex type, as specified in section [3.1.4.1.3.5.<33>](#)

```

<xs:complexType name="PolicyNudgeRulesType">
  <xs:complexContent>
    <xs:extension base="ApplyType">
      <xs:sequence>
        <xs:element name="PolicyNudgeRule" type="PolicyNudgeRuleType"
          minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```



The following table lists the child element of the **PolicyNudgeRulesType** complex type.

Element	Type	Description
<b>PolicyNudgeRule</b>	<b>PolicyNudgeRuleType</b> (section <a href="#">3.1.4.1.3.33</a> )	Specifies a single DLP rule.

### 3.1.4.1.3.33 PolicyNudgeRuleType Complex Type

The **PolicyNudgeRuleType** complex type specifies a single DLP rule. [<34>](#)

```
<xs:complexType name="PolicyNudgeRuleType">
  <xs:sequence>
    <xs:element name="rule" type="ruleType" />
  </xs:sequence>
  <xs:attribute name="id" type="xs:string" use="required" />
  <xs:attribute name="version" type="xs:long" use="required" />
  <xs:anyAttribute processContents="skip" />
</xs:complexType>
```

The following table lists the child element of the **PolicyNudgeRuleType** complex type.

Element	Type	Description
<b>rule</b>	<b>ruleType</b> (section <a href="#">3.1.4.1.3.53</a> )	Specifies a rule definition.

The following table lists the attributes of the **PolicyNudgeRuleType** complex type.

Attribute	Type	Description
<b>id</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	Specifies a DLP rule identifier. This attribute MUST be present.
<b>version</b>	<b>xs:long</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.16)	Specifies a DLP rule version. This attribute MUST be present.
	<b>xs:anyAttribute</b> ( <a href="#">[XMLSCHEMA1]</a> section 3.10)	Indicates that the server can send non-predefined attributes in a response to the client. The client MUST send back the same attributes in subsequent requests.

### 3.1.4.1.3.34 predicateElementConstantType Complex Type

The **predicateElementConstantType** complex type specifies the type of all constant rule predicates. All elements of this type MUST be empty. [<35>](#)

```
<xs:complexType name="predicateElementConstantType" />
```

### 3.1.4.1.3.35 predicateElementMultipleChildType Complex Type

The **predicateElementMultipleChildType** complex type specifies multiple predicates and logical operators for a classification definition. [<36>](#)

```
<xs:complexType name="predicateElementMultipleChildType">
  <xs:choice minOccurs="1" maxOccurs="unbounded">
```

```

<xs:element name="and" type="predicateElementMultipleChildType" />
<xs:element name="classification" type="classificationType" />
<xs:element name="classifications" type="predicateElementSingleChildType" />
<xs:element name="false" type="predicateElementConstantType" />
<xs:element name="not" type="predicateElementSingleChildType" />
<xs:element name="or" type="orType" />
<xs:element name="recipient" type="recipientType" />
<xs:element name="recipients" type="predicateElementSingleChildType" />
<xs:element name="sender" type="senderType" />
<xs:element name="senders" type="predicateElementSingleChildType" />
<xs:element name="true" type="predicateElementConstantType" />
</xs:choice>
</xs:complexType>

```

The following table lists the elements of the **predicateElementMultipleChildType** complex type.

Element	Type	Description
<b>and</b>	<b>predicateElementMultipleChildType</b>	Specifies a logical <b>AND</b> for one or more predicates.
<b>classification</b>	<b>classificationType</b> (section <a href="#">3.1.4.1.3.11</a> )	Specifies a classification identifier.
<b>classifications</b>	<b>predicateElementSingleChildType</b> (section <a href="#">3.1.4.1.3.36</a> )	This element is not used.
<b>false</b>	<b>predicateElementConstantType</b> (section <a href="#">3.1.4.1.3.34</a> )	Specifies the <b>false</b> constant predicate.
<b>not</b>	<b>predicateElementSingleChildType</b>	Specifies a <b>not</b> predicate.
<b>or</b>	<b>orType</b> (section <a href="#">3.1.4.1.3.28</a> )	Specifies a logical <b>OR</b> .
<b>recipient</b>	<b>recipientType</b> (section <a href="#">3.1.4.1.3.46</a> )	Specifies a message recipient (1) that can be used in a predicate.
<b>recipients</b>	<b>predicateElementSingleChildType</b>	This element is not used.
<b>sender</b>	<b>senderType</b> (section <a href="#">3.1.4.1.3.55</a> )	Specifies a message sender that can be used in a predicate.
<b>senders</b>	<b>predicateElementSingleChildType</b>	This element is not used.
<b>true</b>	<b>predicateElementConstantType</b>	Specifies the <b>true</b> constant predicate.

### 3.1.4.1.3.36 predicateElementSingleChildType Complex Type

The **predicateElementSingleChildType** complex type specifies a single predicate or logical operator for a classification definition. [<37>](#)

```

<xs:complexType name="predicateElementSingleChildType">
  <xs:choice>
    <xs:element name="and" type="predicateElementMultipleChildType" />
    <xs:element name="classification" type="classificationType" />
    <xs:element name="classifications" type="predicateElementSingleChildType" />
    <xs:element name="false" type="predicateElementConstantType" />
  </xs:choice>
</xs:complexType>

```

```

<xs:element name="not" type="predicateElementSingleChildType" />
<xs:element name="or" type="orType" />
<xs:element name="recipient" type="recipientType" />
<xs:element name="recipients" type="predicateElementSingleChildType" />
<xs:element name="sender" type="senderType" />
<xs:element name="senders" type="predicateElementSingleChildType" />
<xs:element name="true" type="predicateElementConstantType" />
</xs:choice>
</xs:complexType>

```

The following table describes the child elements of the **predicateElementSingleChildType** complex type.

Element	Type	Description
<b>and</b>	<b>predicateElementMultipleChildType</b> (section <a href="#">3.1.4.1.3.35</a> )	Specifies a logical <b>AND</b> for one or more predicates.
<b>classification</b>	<b>classificationType</b> (section <a href="#">3.1.4.1.3.11</a> )	Specifies a classification identifier.
<b>classifications</b>	<b>predicateElementSingleChildType</b>	Specifies a container for many classification identifiers.
<b>false</b>	<b>predicateElementConstantType</b> (section <a href="#">3.1.4.1.3.34</a> )	Specifies the <b>false</b> constant predicate.
<b>not</b>	<b>predicateElementSingleChildType</b>	Specifies a <b>not</b> predicate.
<b>or</b>	<b>orType</b> (section <a href="#">3.1.4.1.3.28</a> )	Specifies a logical <b>OR</b> .
<b>recipient</b>	<b>recipientType</b> (section <a href="#">3.1.4.1.3.46</a> )	Specifies a message recipient (1) that can be used in a predicate.
<b>recipients</b>	<b>predicateElementSingleChildType</b>	Specifies a container for many message recipients (1).
<b>sender</b>	<b>senderType</b> (section <a href="#">3.1.4.1.3.55</a> )	Specifies a message sender that can be used in a predicate.
<b>senders</b>	<b>predicateElementSingleChildType</b>	Specifies a container for many message senders.
<b>true</b>	<b>predicateElementConstantType</b>	Specifies the <b>true</b> constant predicate.

### 3.1.4.1.3.37 t:ProtectionRuleActionType Complex Type

The **ProtectionRuleActionType** complex type specifies the action that the client can take if the condition part of the associated rule evaluates to "true".

```

<xs:complexType name="ProtectionRuleActionType">
  <xs:sequence>
    <xs:element name="Argument" type="t:ProtectionRuleArgumentType"
      maxOccurs="unbounded" minOccurs="0" />
  </xs:sequence>
  <xs:attribute name="Name" type="t:ProtectionRuleActionKindType"
    use="required" />
</xs:complexType>

```

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

The following table lists the child element of the **ProtectionRuleActionType** complex type.

Element	Type	Description
<b>Argument</b>	<b>t:ProtectionRuleArgumentType</b> (section <a href="#">3.1.4.1.3.39</a> )	Specifies arguments to the action. This element MUST NOT occur if the specified action does not require arguments to be specified. This element can occur one or more times if an action requires one or more arguments. The <b>RightsProtectMessage</b> action name (section <a href="#">3.1.4.1.4.6</a> ) is the only supported value for the <b>Name</b> attribute, and it MUST have a single argument.

The following table lists the attribute of the **ProtectionRuleActionType** complex type.

Attribute	Type	Description
<b>Name</b>	<b>t:ProtectionRuleActionKindType</b> (section <a href="#">3.1.4.1.4.6</a> )	Specifies the name of the action. This attribute MUST be present.

### 3.1.4.1.3.38 t:ProtectionRuleAndType Complex Type

The **ProtectionRuleAndType** complex type specifies that there has to be more than one protection rule condition. Elements of type **ProtectionRuleAndType** MUST contain at least one child element.

```
<xs:complexType name="ProtectionRuleAndType">
  <xs:sequence>
    <xs:choice minOccurs="1" maxOccurs="unbounded">
      <xs:element name="AllInternal" type="t:ProtectionRuleAllInternalType" />
      <xs:element name="And" type="t:ProtectionRuleAndType" />
      <xs:element name="RecipientIs" type="t:ProtectionRuleRecipientIsType" />
      <xs:element name="SenderDepartments"
        type="t:ProtectionRuleSenderDepartmentsType" />
      <xs:element name="True" type="t:ProtectionRuleTrueType" />
    </xs:choice>
  </xs:sequence>
</xs:complexType>
```

The following table lists the child elements of the **ProtectionRuleAndType** complex type.

Element	Type	Description
<b>AllInternal</b>	<b>t:ProtectionRuleAllInternalType</b> (section <a href="#">3.1.4.1.4.7</a> )	Evaluates to "true" if all recipients (1) of an email message are internal to the sender's organization.
<b>And</b>	<b>t:ProtectionRuleAndType</b>	Specifies that all child elements MUST match to evaluate to "true".

Element	Type	Description
<b>RecipientIs</b>	<b>t:ProtectionRuleRecipientIsType</b> (section <a href="#">3.1.4.1.3.41</a> )	Evaluates to "true" if any recipient (1) of the email message matches any of the specified recipients (1) in the child <b>Value</b> elements.
<b>SenderDepartments</b>	<b>t:ProtectionRuleSenderDepartmentsType</b> (section <a href="#">3.1.4.1.3.42</a> )	Evaluates to "true" if the department of the sender matches any specified department in the child <b>Value</b> elements.
<b>True</b>	<b>t:ProtectionRuleTrueType</b> (section <a href="#">3.1.4.1.4.8</a> )	Specifies a condition that always evaluates to "true".

### 3.1.4.1.3.39 t:ProtectionRuleArgumentType Complex Type

The **ProtectionRuleArgumentType** complex type specifies an attribute that is used to specify an argument to an action. The protection is identified by the **Value** attribute.

```
<xs:complexType name="ProtectionRuleArgumentType">
  <xs:attribute name="Value" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:minLength value="1" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
```

The following table lists the attributes of the **ProtectionRuleArgumentType** complex type.

Attribute	Type	Description
<b>Value</b>	<b>xs:string</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.1)	Specifies the value of an argument to the action part of a protection rule. This attribute value MUST be a string of at least one character in length.

### 3.1.4.1.3.40 t:ProtectionRuleConditionType Complex Type

The **ProtectionRuleConditionType** complex type specifies the condition part of a protection rule.

```
<xs:complexType name="ProtectionRuleConditionType">
  <xs:choice maxOccurs="1" minOccurs="1">
    <xs:element name="AllInternal" type="t:ProtectionRuleAllInternalType" />
    <xs:element name="And" type="t:ProtectionRuleAndType" />
    <xs:element name="RecipientIs" type="t:ProtectionRuleRecipientIsType" />
    <xs:element name="SenderDepartments"
      type="t:ProtectionRuleSenderDepartmentsType" />
    <xs:element name="True" type="t:ProtectionRuleTrueType" />
  </xs:choice>
</xs:complexType>
```

The following table lists the child elements of the **ProtectionRuleConditionType** complex type.

Element	Type	Description
<b>AllInternal</b>	<b>t:ProtectionRuleAllInternalType</b> (section <a href="#">3.1.4.1.4.7</a> )	Evaluates to "true" if all recipients (1) of an email message are internal to the sender's organization. If this element exists, the <b>And</b> , <b>RecipientIs</b> , <b>SenderDepartments</b> , and <b>True</b> elements MUST NOT be direct child nodes of elements of type <b>ProtectionRuleConditionType</b> .
<b>And</b>	<b>t:ProtectionRuleAndType</b> (section <a href="#">3.1.4.1.3.38</a> )	Evaluates to "true" if all child conditions evaluate to "true". There MUST be more than one protection rule child condition. If this element exists, the <b>AllInternal</b> , <b>RecipientIs</b> , <b>SenderDepartments</b> , and <b>True</b> elements MUST NOT be direct child nodes of elements of type <b>ProtectionRuleConditionType</b> .
<b>RecipientIs</b>	<b>t:ProtectionRuleRecipientIsType</b> (section <a href="#">3.1.4.1.3.41</a> )	Evaluates to "true" if any recipient (1) of the email message matches any of the specified recipients (1) in the child <b>Value</b> elements. If this element exists, the <b>And</b> , <b>AllInternal</b> , <b>SenderDepartments</b> , and <b>True</b> elements MUST NOT be direct child nodes of elements of type <b>ProtectionRuleConditionType</b> .
<b>SenderDepartments</b>	<b>t:ProtectionRuleSenderDepartmentsType</b> (section <a href="#">3.1.4.1.3.42</a> )	Evaluates to "true" if the department of the sender matches any of the specified departments in the child <b>Value</b> elements. If this element exists, the <b>And</b> , <b>RecipientIs</b> , <b>AllInternal</b> , and <b>True</b> elements MUST NOT be direct child nodes of elements of type <b>ProtectionRuleConditionType</b> .
<b>True</b>	<b>t:ProtectionRuleTrueType</b> (section <a href="#">3.1.4.1.4.8</a> )	Specifies a condition that always evaluates to "true". If this element exists, the <b>And</b> , <b>RecipientIs</b> , <b>SenderDepartments</b> , and <b>AllInternal</b> elements MUST NOT be direct child nodes of elements of type <b>ProtectionRuleConditionType</b> .

#### 3.1.4.1.3.41 t:ProtectionRuleRecipientIsType Complex Type

The **ProtectionRuleRecipientIsType** complex type specifies the **RecipientIs** predicate. The semantics of the **RecipientIs** predicate is a condition that evaluates to "true" if any recipients (1) of the email message match any specified recipients (1) in the child **Value** elements.

```
<xs:complexType name="ProtectionRuleRecipientIsType">
  <xs:sequence>
    <xs:element name="Value" type="t:ProtectionRuleValueType"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

The following table lists the child element of the **ProtectionRuleRecipientIsType** complex type.

Element	Type	Description
<b>Value</b>	<b>t:ProtectionRuleValueType</b> (section <a href="#">3.1.4.1.4.9</a> )	Specifies an argument to the <b>RecipientIs</b> condition. This element MUST occur at least once.

#### 3.1.4.1.3.42 t:ProtectionRuleSenderDepartmentsType Complex Type

The **ProtectionRuleSenderDepartmentsType** complex type specifies the **SenderDepartments** predicate. The semantics of the **SenderDepartments** predicate is a condition that evaluates to "true" if the department of the sender of the email message matches any of the specified departments in the child **Value** elements.

```
<xs:complexType name="ProtectionRuleSenderDepartmentsType">
  <xs:sequence>
    <xs:element name="Value" type="t:ProtectionRuleValueType"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

The following table lists the child element of the **ProtectionRuleSenderDepartmentsType** complex type.

Element	Type	Description
<b>Value</b>	<b>t:ProtectionRuleValueType</b> (section <a href="#">3.1.4.1.4.9</a> )	Specifies an argument to the <b>SenderDepartments</b> condition. This element MUST occur at least once.

#### 3.1.4.1.3.43 t:ProtectionRulesServiceConfiguration Complex Type

The **ProtectionRulesServiceConfiguration** complex type specifies the configuration of the protection rules service. The configuration comprises a list of rules, a list of the internal domains, and a refresh interval. This type extends the **t:ServiceConfiguration** complex type, as specified in section [3.1.4.1.3.56](#).

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

```

<xs:complexContent>
  <xs:extension base="t:ServiceConfiguration">
    <xs:sequence>
      <xs:element name="Rules" type="t:ArrayOfProtectionRulesType"
        maxOccurs="1" minOccurs="1" />
      <xs:element name="InternalDomains" type="t:SmtpDomainList"
        maxOccurs="1" minOccurs="1"/>
    </xs:sequence>
    <xs:attribute name="RefreshInterval" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:int">
          <xs:minInclusive value="1" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

The following table lists the child elements of the **ProtectionRulesServiceConfiguration** complex type.

Element	Type	Description
<b>Rules</b>	<b>t:ArrayOfProtectionRulesType</b> (section <a href="#">3.1.4.1.3.6</a> )	Specifies the collection of rules to be evaluated.  This element <b>MUST</b> be included if the <b>ProtectionRulesServiceConfiguration</b> complex type is used.
<b>InternalDomains</b>	<b>t:SmtpDomainList</b> (section <a href="#">3.1.4.1.3.59</a> )	Specifies the list of internal SMTP domains of the organization.  This element <b>MUST</b> be included if the <b>ProtectionRulesServiceConfiguration</b> complex type is used.

The following table lists the attribute of the **ProtectionRulesServiceConfiguration** complex type.

Attribute	Type	Description
<b>RefreshInterval</b>	<b>xs:int</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.17)	Specifies how often, in whole hours, the client <b>SHOULD</b> request protection rules from the server.  This attribute <b>MUST</b> be included if the <b>ProtectionRulesServiceConfiguration</b> complex type is used.

#### 3.1.4.1.3.44 t:ProtectionRuleType Complex Type

The **ProtectionRuleType** complex type specifies a single protection rule.

```

<xs:complexType name="ProtectionRuleType">
  <xs:sequence>
    <xs:element name="Condition" type="t:ProtectionRuleConditionType"
      minOccurs="1" maxOccurs="1"/>
    <xs:element name="Action" type="t:ProtectionRuleActionType"

```



```

        minOccurs="1" maxOccurs="1"/>
</xs:sequence>
<xs:attribute name="Name" use="required">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="UserOverridable" type="xs:boolean" use="required" />
<xs:attribute name="Priority" use="required" >
  <xs:simpleType>
    <xs:restriction base="xs:int">
      <xs:minInclusive value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

The following table lists the child elements of the **ProtectionRuleType** complex type.

Element	Type	Definition
<b>Condition</b>	<b>t:ProtectionRuleConditionType</b> (section <a href="#">3.1.4.1.3.40</a> )	Specifies the condition to be satisfied for the action part of the rule to be executed. This element <b>MUST</b> be included if the <b>ProtectionRuleType</b> complex type is used.
<b>Action</b>	<b>t:ProtectionRuleActionType</b> (section <a href="#">3.1.4.1.3.37</a> )	Specifies the action to be executed if the condition part of the rule matches. This element <b>MUST</b> be included if the <b>ProtectionRuleType</b> complex type is used.

The following table lists the attributes of the **ProtectionRuleType** complex type.

Attribute	Type	Definition
<b>Name</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	Specifies the name of the rule. This attribute <b>MUST</b> be included if the <b>ProtectionRuleType</b> complex type is used. This attribute value <b>MUST</b> contain a string of at least one character.
<b>UserOverridable</b>	<b>xs:boolean</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.2)	Specifies whether the rule is mandatory. If the rule is mandatory, this attribute value <b>MUST</b> be <b>false</b> . This attribute <b>MUST</b> be included if the <b>ProtectionRuleType</b> complex type is used.
<b>Priority</b>	<b>xs:int</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.17)	Specifies the rule priority. The lower bound <b>MUST</b> be 1, which specifies the highest priority. This attribute <b>MUST</b> be included if the <b>ProtectionRuleType</b> complex type is used. This attribute value <b>MUST</b> contain an integer value of at least 1.

#### 3.1.4.1.3.45 mce:PublisherType Complex Type

The **PublisherType** complex type specifies the unique identifier of a rule pack publisher. [<38>](#)

```
<xs:complexType name="PublisherType">
  <xs:attribute name="id" type="mce:GuidType" use="required"/>
</xs:complexType>
```

The following table lists the attribute of the **PublisherType** complex type.

Attribute	Type	Definition
<b>id</b>	<b>mce:GuidType</b> (section <a href="#">3.1.4.1.4.1</a> )	Specifies the rules pack publisher's identifier. This attribute MUST be present.

#### 3.1.4.1.3.46 recipientType Complex Type

The **recipientType** complex type specifies a recipient (1) in a classification definition. No more than one of the attributes in this type can be present. [<39>](#)

```
<xs:complexType name="recipientType">
  <xs:attribute name="address" type="xs:string" use="optional" />
  <xs:attribute name="domain" type="xs:string" use="optional" />
  <xs:attribute name="scope" use="optional">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Internal"/>
        <xs:enumeration value="External"/>
        <xs:enumeration value="ExternalNonPartner"/>
        <xs:enumeration value="ExternalPartner"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
```

The following table lists the attributes of the **recipientType** complex type.

Attribute	Type	Description
<b>address</b>	<b>xs:string</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.1)	Specifies a recipient's (1) <b>email address</b> .
<b>domain</b>	<b>xs:string</b>	Specifies a recipient's (1) domain.
<b>scope</b>	<b>xs:string</b>	Specifies a recipient's (1) organizational scope as compared to the target mailbox user. The applicable values for this attribute are as follows: Internal External ExternalNonPartner ExternalPartner

#### 3.1.4.1.3.47 mce:RegexType Complex Type

The **RegexType** complex type specifies a regular expression text processor. [<40>](#)

```
<xs:complexType name="RegexType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="id" type="xs:token" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

The following table lists the attribute of the **RegexType** complex type.

Attribute	Type	Description
<b>id</b>	<b>xs:token</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.3.2)	Specifies the regular expression text processor identifier.

#### 3.1.4.1.3.48 mce:ResourceNameType Complex Type

The **ResourceNameType** complex type specifies a localized name for a classification rule. [<41>](#)

```
<xs:complexType name="ResourceNameType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="default" type="xs:boolean" default="false"/>
      <xs:attribute name="langcode" type="mce:LangType" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

The following table lists the attributes of the **ResourceNameType** complex type.

Attribute	Type	Description
<b>default</b>	<b>xs:boolean</b> ( <a href="#">[XMLSCHEMA2]</a> section 3.2.1)	Specifies whether this is the default resource name. A text value of "true" indicates that this is the default resource name. The default value is "false".
<b>langcode</b>	<b>mce:LangType</b> (section <a href="#">3.1.4.1.4.2</a> )	Specifies the language code that represents the localized name of a classification rule. The <b>langcode</b> attribute value of all <b>Name</b> elements (section <a href="#">3.1.4.1.3.49</a> ) MUST be unique per <b>Resource</b> element (section <a href="#">3.1.4.1.3.25</a> ). This attribute MUST be present.

#### 3.1.4.1.3.49 mce:ResourceType Complex Type

The **ResourceType** complex type specifies the localized names and descriptions of a classification rule. [<42>](#)

```
<xs:complexType name="ResourceType">
  <xs:sequence>
    <xs:element name="Name" type="mce:ResourceNameType" maxOccurs="unbounded"/>
    <xs:element name="Description" type="mce:DescriptionType" minOccurs="0">
```

```

        maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="idRef" type="mce:GuidType" use="required"/>
</xs:complexType>

```

The following table lists the child elements of the **ResourceType** complex type.

Element	Type	Description
<b>Name</b>	<b>mce:ResourceNameType</b> (section <a href="#">3.1.4.1.3.48</a> )	Specifies a localized resource name.
<b>Description</b>	<b>mce:DescriptionType</b> (section <a href="#">3.1.4.1.3.13</a> )	Specifies a localized resource description. A <b>Resource</b> element, as specified in section <a href="#">3.1.4.1.3.25</a> , of type <b>ResourceType</b> MUST have only one <b>Description</b> element with a value <b>default</b> attribute set to the value of <b>true</b> .

The following table lists the attribute of the **ResourceType** complex type.

Attribute	Type	Description
<b>idRef</b>	<b>mce:GuidType</b> (section <a href="#">3.1.4.1.4.1</a> )	Specifies the classification rule identifier that this resource represents.

### 3.1.4.1.3.50 mce:RulePackageContainerType Complex Type

The **RulePackageContainerType** complex type contains a single rule package. [<43>](#)

```

<xs:complexType name="RulePackageContainerType">
  <xs:sequence>
    <xs:element name="RulePackage" type="mce:RulePackageType" />
  </xs:sequence>
</xs:complexType>

```

The following table lists the child element of the **RulePackageContainerType** complex type.

Element	Type	Description
<b>RulePackage</b>	<b>mce:RulePackageType</b> (section <a href="#">3.1.4.1.3.51</a> )	Specifies a classification rule package. This element MUST be present.

### 3.1.4.1.3.51 mce:RulePackageType Complex Type

The **RulePackageType** complex type specifies the rule pack identifier and the set of classification definitions rules. [<44>](#) A rule pack is a collection of rules (4) and associated resources.

```

<xs:complexType name="RulePackageType">
  <xs:sequence>
    <xs:element name="RulePack" type="mce:RulePackType"/>
    <xs:element name="Rules" type="mce:RulesType">
      <xs:key name="UniqueRuleId">
        <xs:selector xpath="mce:Entity|mce:Affinity"/>

```

```

        <xs:field xpath="@id"/>
    </xs:key>
    <xs:key name="UniqueProcessorId">
        <xs:selector xpath="mce:Regex|mce:Keyword"/></xs:selector>
        <xs:field xpath="@id"/>
    </xs:key>
    <xs:key name="UniqueResourceIdRef">
        <xs:selector xpath="mce:LocalizedStrings/mce:Resource"/>
        <xs:field xpath="@idRef"/>
    </xs:key>
    <xs:keyref name="ReferencedRuleMustExist" refer="mce:UniqueRuleId">
        <xs:selector xpath="mce:LocalizedStrings/mce:Resource"/>
        <xs:field xpath="@idRef"/>
    </xs:keyref>
    <xs:keyref name="RuleMustHaveResource" refer="mce:UniqueResourceIdRef">
        <xs:selector xpath="mce:Entity|mce:Affinity"/>
        <xs:field xpath="@id"/>
    </xs:keyref>
</xs:element>
</xs:sequence>
</xs:complexType>

```

The following table lists the child elements of the **RulePackageType** complex type.

Element	Type	Description
<b>RulePack</b>	<b>mce:RulePackType</b> (section <a href="#">3.1.4.1.3.52</a> )	Specifies the version, publisher information, and localized information of a rule pack.
<b>Rules</b>	<b>mce:RulesType</b> (section <a href="#">3.1.4.1.3.54</a> )	Specifies a collection of classification rules, text processors, and localized information of the classification rules.

### 3.1.4.1.3.52 mce:RulePackType Complex Type

The **RulePackType** complex type specifies the version, identifier, and publisher of a rule pack. [<45>](#)

```

<xs:complexType name="RulePackType">
  <xs:sequence>
    <xs:element name="Version" type="mce:VersionType"/>
    <xs:element name="Publisher" type="mce:PublisherType"/>
    <xs:element name="Details" type="mce:DetailsType">
      <xs:key name="UniqueLangCodeInLocalizedDetails">
        <xs:selector xpath="mce:LocalizedDetails"/>
        <xs:field xpath="@langcode"/>
      </xs:key>
      <xs:keyref name="DefaultLangCodeMustExist"
        refer="mce:UniqueLangCodeInLocalizedDetails">
        <xs:selector xpath="."/>
        <xs:field xpath="@defaultLangCode"/>
      </xs:keyref>
    </xs:element>
    <xs:element name="Encryption" type="mce:EncryptionType" minOccurs="0"
      maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="id" type="mce:GuidType" use="required"/>

```

</xs:complexType>

The following table describes the child elements of the **RulePackType** complex type.

Element	Type	Description
<b>Version</b>	<b>mce:VersionType</b> (section <a href="#">3.1.4.1.3.62</a> )	Specifies the rule pack version. This element MUST be present.
<b>Publisher</b>	<b>mce:PublisherType</b> (section <a href="#">3.1.4.1.3.45</a> )	Specifies the rule pack publisher. This element MUST be present.
<b>Details</b>	<b>mce:DetailsType</b> (section <a href="#">3.1.4.1.3.14</a> )	Specifies the rule pack localized information. This element MUST be present.
<b>Encryption</b>	<b>mce:EncryptionType</b> (section <a href="#">3.1.4.1.3.15</a> )	Specifies the rule pack encryption key and initialization vector. This MUST be present only when the rule pack is encrypted.

The following table describes the attribute of the **RulePackType** complex type.

Attribute	Type	Description
<b>id</b>	<b>mce:GuidType</b> (section <a href="#">3.1.4.1.4.1</a> )	Specifies the rule pack identifier.

### 3.1.4.1.3.53 ruleType Complex Type

The **ruleType** complex type specifies a DLP rule.[<46>](#)

```
<xs:complexType name="ruleType">
  <xs:sequence>
    <xs:element name="version" type="versionType" minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
  <xs:attribute name="name" type="xs:string" use="required" />
  <xs:attribute name="id" type="xs:string" use="required" />
  <xs:attribute name="description" type="xs:string" use="required" />
</xs:complexType>.
```

The following table describes the child element of the **ruleType** complex type.

Element	Type	Description
<b>version</b>	<b>versionType</b> (section <a href="#">3.1.4.1.3.63</a> )	Specifies the minimum client version that can use this rule and the rule conditions and actions. This element MUST be present.

The following table describes the attributes of the **ruleType** complex type.

Attribute	Type	Description
<b>name</b>	<b>xs:string</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.1)	Specifies the rule name. This attribute MUST be present.
<b>id</b>	<b>xs:string</b>	Specifies the rule identifier. This attribute MUST be present.

Attribute	Type	Description
<b>description</b>	<b>xs:string</b>	Specifies the rule description. This attribute <b>MUST</b> be present.

### 3.1.4.1.3.54 mce:RulesType Complex Type

The **RulesType** complex type specifies the rules collection in a rules package. [<47>](#)

```
<xs:complexType name="RulesType">
  <xs:sequence>
    <xs:choice maxOccurs="unbounded">
      <xs:element name="Entity" type="mce:EntityType"/>
      <xs:element name="Affinity" type="mce:AffinityType"/>
    </xs:choice>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element name="Regex" type="mce:RegexType"/>
      <xs:element name="Keyword" type="mce:KeywordType"/>
    </xs:choice>
    <xs:element name="LocalizedStrings" type="mce:LocalizedStringsType"/>
  </xs:sequence>
</xs:complexType>
```

The following table lists the child elements of the **RulesType** complex type.

Element	Type	Description
<b>Entity</b>	<b>mce:EntityType</b> (section <a href="#">3.1.4.1.3.16</a> )	Specifies an entity-based rules classification definition.
<b>Affinity</b>	<b>mce:AffinityType</b> (section <a href="#">3.1.4.1.3.3</a> )	Specifies an affinity-based rules classification definition.
<b>Regex</b>	<b>mce:RegexType</b> (section <a href="#">3.1.4.1.3.47</a> )	Specifies a regular expression text processor.
<b>Keyword</b>	<b>mce:KeywordType</b> (section <a href="#">3.1.4.1.3.22</a> )	Specifies a keyword text processor.
<b>LocalizedStrings</b>	<b>mce:LocalizedStringsType</b> (section <a href="#">3.1.4.1.3.25</a> )	Specifies the localized information for an entity or affinity classification rule.

### 3.1.4.1.3.55 senderType Complex Type

The **senderType** complex type specifies a sender in a classification definition. [<48>](#)

```
<xs:complexType name="senderType">
  <xs:attribute name="address" type="xs:string" use="optional" />
  <xs:attribute name="domain" type="xs:string" use="optional" />
</xs:complexType>
```

The following table describes the attributes of the **senderType** complex type.

Attribute	Type	Description
address	xs:string ( <a href="#">XMLSCHEMA2</a> section 3.2.1)	Specifies a sender's email address.
domain	xs:string	Specifies a sender's domain.

### 3.1.4.1.3.56 t:ServiceConfiguration Complex Type

The **ServiceConfiguration** type specifies the base type for the service configuration types.

```
<xs:complexType name="ServiceConfiguration">
  </xs:complexType>
```

### 3.1.4.1.3.57 m:ServiceConfigurationResponseMessageType Complex Type

The **ServiceConfigurationResponseMessageType** complex type specifies service configuration settings. This complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA](#) section 2.2.4.57.

```
<xs:complexType name="ServiceConfigurationResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="MailTipsConfiguration"
          type="t:MailTipsServiceConfiguration" minOccurs="0"
          maxOccurs="1" />
        <xs:element name="UnifiedMessagingConfiguration"
          type="t:UnifiedMessageServiceConfiguration"
          maxOccurs="1" minOccurs="0" />
        <xs:element name="ProtectionRulesConfiguration"
          type="t:ProtectionRulesServiceConfiguration"
          maxOccurs="1" minOccurs="0" />
        <xs:element name="PolicyNudgeRulesConfiguration"
          type="t:PolicyNudgeRulesServiceConfiguration" minOccurs="0"
          maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table lists the child elements of the **ServiceConfigurationResponseMessageType** complex type.

Element	Type	Description
<b>MailTipsConfiguration</b>	<b>t:MailTipsServiceConfiguration</b> (section <a href="#">3.1.4.1.3.27</a> )	Contains service configuration information for the mail tips service. This element <b>MUST</b> occur for mail tips service configuration.



Element	Type	Description
<b>UnifiedMessagingConfiguration</b>	<b>t:UnifiedMessageServiceConfiguration</b> (section <a href="#">3.1.4.1.3.61</a> )	Contains service configuration information for the Unified Messaging service. This element <b>MUST</b> occur for Unified Messaging service configuration.
<b>ProtectionRulesConfiguration</b>	<b>t:ProtectionRulesServiceConfiguration</b> (section <a href="#">3.1.4.1.3.43</a> )	Contains service configuration information for the protection rules service. This element <b>MUST</b> occur for protection rules service configuration.
<b>PolicyNudgeRulesConfiguration</b>	<b>t:PolicyNudgeRulesServiceConfiguration</b> (section <a href="#">3.1.4.1.3.30</a> )	Contains DLP rules and classification definitions. <a href="#">&lt;49&gt;</a>

### 3.1.4.1.3.58 t:SmtpDomain Complex Type

The **SmtpDomain** complex type specifies a single domain.

```
<xs:complexType name="SmtpDomain">
  <xs:attribute name="Name" type="xs:string" use="required"/>
  <xs:attribute name="IncludeSubdomains" type="xs:boolean" use="optional"/>
</xs:complexType>
```

The following table lists the attributes of the **SmtpDomain** complex type.

Attribute	Type	Definition
<b>Name</b>	<b>xs:string</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.1)	Specifies the name of a domain. This attribute <b>MUST</b> be set.
<b>IncludeSubdomains</b>	<b>xs:boolean</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.2)	Specifies whether subdomains of the domain identified by the <b>Name</b> attribute are included. A text value of "true" indicates that subdomains are included. This attribute is optional. The default value is "false".

### 3.1.4.1.3.59 t:SmtpDomainList Complex Type

The **SmtpDomainList** complex type specifies a list of internal domains in a user's organization.

```
<xs:complexType name="SmtpDomainList">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Domain"
      type="t:SmtpDomain"/>
  </xs:sequence>
</xs:complexType>
```

```

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

```

The following table lists the child element of the **SmtptDomainList** complex type.

Element	Type	Definition
<b>Domain</b>	<b>t:SmtptDomain</b> (section <a href="#">3.1.4.1.3.58</a> )	Specifies a single SMTP domain. This element can occur zero or more times. It occurs once for each domain in the user's organization. If there are no internal domains, this element does not occur.

### 3.1.4.1.3.60 mce:TermType Complex Type

The **TermType** complex type specifies a term and whether the term is case-sensitive. [50](#) This type extends the **RestrictedTermType** simple type, as specified in section [3.1.4.1.4.12](#).

```

<xs:complexType name="TermType">
  <xs:simpleContent>
    <xs:extension base="mce:RestrictedTermType">
      <xs:attribute name="caseSensitive" type="xs:boolean" default="false"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

```

The following table describes the attribute of the **TermType** complex type.

Attribute	Type	Description
<b>caseSensitive</b>	<b>xs:boolean</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.2)	Specifies whether the term comparison is case sensitive. A value of "true" indicates that the comparison is case sensitive. The default value is "false".

### 3.1.4.1.3.61 t:UnifiedMessageServiceConfiguration Complex Type

The **UnifiedMessageServiceConfiguration** complex type specifies the configuration for the Unified Messaging service. This type extends the **ServiceConfiguration** complex type, as specified in section [3.1.4.1.3.56](#).

```

<xs:complexType name="UnifiedMessageServiceConfiguration">
  <xs:complexContent>
    <xs:extension base="t:ServiceConfiguration">
      <xs:sequence>
        <xs:element name="UmEnabled" type="xs:boolean"
          maxOccurs="1" minOccurs="1" />
        <xs:element name="PlayOnPhoneDialString" type="xs:string"
          maxOccurs="1" minOccurs="1" />
        <xs:element name="PlayOnPhoneEnabled" type="xs:boolean"
          maxOccurs="1" minOccurs="1" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

The following table lists the child elements of the **UnifiedMessageServiceConfiguration** complex type.

Element	Type	Description
<b>UmEnabled</b>	<b>xs:boolean</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.2)	Specifies whether Unified Messaging is enabled. A text value of "true" indicates that Unified Messaging is enabled. This element <b>MUST</b> be included if the <b>UnifiedMessageServiceConfiguration</b> complex type is used.
<b>PlayOnPhoneDialString</b>	<b>xs:string</b> ( <a href="#">XMLSCHEMA2</a> section 3.2.1)	Specifies the telephone number for play-on-phone. This element <b>MUST</b> be included if the <b>UnifiedMessageServiceConfiguration</b> complex type is used.
<b>PlayOnPhoneEnabled</b>	<b>xs:boolean</b>	Specifies whether play-on-phone is enabled. A text value of "true" indicates that play-on-phone is enabled. This element <b>MUST</b> be included if the <b>UnifiedMessageServiceConfiguration</b> complex type is used.

### 3.1.4.1.3.62 VersionType Complex Type

The **VersionType** complex type specifies the rule pack version.

```
<xs:complexType name="VersionType">
  <xs:attribute name="major" type="xs:unsignedShort" use="required"/>
  <xs:attribute name="minor" type="xs:unsignedShort" use="required"/>
  <xs:attribute name="build" type="xs:unsignedShort" use="required"/>
  <xs:attribute name="revision" type="xs:unsignedShort" use="required"/>
</xs:complexType>
```

The following table lists the attributes of the **VersionType** complex type.

Attribute	Type	Description
<b>major</b>	<b>xs:unsignedShort</b> ( <a href="#">XMLSCHEMA2</a> section 3.3.23)	Specifies the rule pack major version number.
<b>minor</b>	<b>xs:unsignedShort</b>	Specifies the rule pack minor version number.
<b>build</b>	<b>xs:unsignedShort</b>	Specifies the rule pack build number.
<b>revision</b>	<b>xs:unsignedShort</b>	Specifies the rule pack revision number.

### 3.1.4.1.3.63 versionType Complex Type

The **versionType** complex type specifies the minimum client version that can use the rule and the rule conditions and actions. [<51>](#)

```
<xs:complexType name="versionType">
  <xs:sequence>
    <xs:element name="condition" type="predicateElementSingleChildType" />
    <xs:element name="actions" type="actionsType" />
  </xs:sequence>
</xs:complexType>
```

```

</xs:sequence>
<xs:attribute name="minRequiredVersion" type="minRequiredVersionType"
  use="required" />
</xs:complexType>

```

The following table describes the child elements of the **versionType** complex type.

Element	Type	Description
<b>condition</b>	<b>predicateElementSingleChildType</b> (section <a href="#">3.1.4.1.3.36</a> )	Specifies the rule conditions.
<b>actions</b>	<b>actionsType</b> (section <a href="#">3.1.4.1.3.1</a> )	Specifies the rule actions to take if the rule conditions are met.

The following table describes the attribute of the **versionType** complex type.

Attribute	Type	Description
<b>minRequiredVersion</b>	<b>minRequiredVersionType</b> (section <a href="#">3.1.4.1.4.3</a> )	Specifies the minimum required client version that can use this rule.

### 3.1.4.1.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

Simple type	Description
<b>GuidType</b> (section <a href="#">3.1.4.1.4.1</a> )	Specifies the regular expression pattern of a <b>GUID</b> .
<b>LangType</b> (section <a href="#">3.1.4.1.4.2</a> )	Specifies the natural language identifiers as specified in <a href="#">[RFC4646]</a> .
<b>minRequiredVersionType</b> (section <a href="#">3.1.4.1.4.3</a> )	Specifies the format of the minimum client version that can implement the rule.
<b>NameType</b> (section <a href="#">3.1.4.1.4.4</a> )	Specifies a string format that has a minimum length of one character; has a maximum length of 256 characters; and does not contain a carriage return, a line feed, or a tab character.
<b>OptionalNameType</b> (section <a href="#">3.1.4.1.4.5</a> )	Specifies a string format that has no minimum length; has a maximum length of 256 characters; and does not contain a carriage return, a line feed, or a tab character.
<b>ProtectionRuleActionKindType</b> (section <a href="#">3.1.4.1.4.6</a> )	Specifies the actions that are supported by the protection rules
<b>ProtectionRuleAllInternalType</b> (section <a href="#">3.1.4.1.4.7</a> )	Specifies the <b>AllInternal</b> predicate.
<b>ProtectionRuleTrueType</b> (section <a href="#">3.1.4.1.4.8</a> )	Specifies the <b>True</b> predicate.
<b>ProtectionRuleValueType</b> (section <a href="#">3.1.4.1.4.9</a> )	Specifies additional arguments to the <b>RecipientIs</b> (section <a href="#">3.1.4.1.3.41</a> ) and <b>SenderDepartments</b> (section <a href="#">3.1.4.1.3.42</a> ) predicates.

Simple type	Description
<b>ProbabilityType</b> (section <a href="#">3.1.4.1.4.10</a> )	Specifies the degree of confidence that the server rule processing engines have identified a matching item.
<b>ProximityType</b> (section <a href="#">3.1.4.1.4.11</a> )	Specifies the threshold for how far apart the primary match and the corroborative evidences can be in order for the entity or affinity to be considered a match.
<b>RestrictedTermType</b> (section <a href="#">3.1.4.1.4.12</a> )	Specifies the terms for keyword-based processing. The minimum length can be one character; the maximum length MUST be 100 characters.
<b>RulePackNameType</b> (section <a href="#">3.1.4.1.4.13</a> )	Specifies the format of a rule pack name. A rule pack name MUST have no fewer than one character and no more than 64 characters. A rule pack name MUST NOT contain a carriage return, a line feed, a tab character, leading spaces, trailing spaces, or sequences of two or more spaces.
<b>ServiceConfigurationType</b> (section <a href="#">3.1.4.1.4.14</a> )	Specifies the service configurations that are returned in the response.
<b>WorkloadType</b> (section <a href="#">3.1.4.1.4.15</a> )	Not used.
<b>yesnoType</b> (section <a href="#">3.1.4.1.4.16</a> )	Specifies whether override or false positive settings are enabled.

#### 3.1.4.1.4.1 mce:GuidType Simple Type

The **GuidType** simple type specifies the regular expression pattern of a GUID. [.<52>](#)

```
<xs:simpleType name="GuidType" final="#all">
  <xs:restriction base="xs:token">
    <xs:pattern value="[0-9a-fA-F]{8}\-([0-9a-fA-F]{4}\-){3}[0-9a-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>.
```

#### 3.1.4.1.4.2 mce:LangType Simple Type

The **LangType** simple type specifies the natural language identifiers, as specified in [\[RFC4646\].<53>](#)

```
<xs:simpleType name="LangType">
  <xs:union memberTypes="xs:language">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value=""/>
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
```

#### 3.1.4.1.4.3 minRequiredVersionType Simple Type

The **minRequiredVersionType** simple type specifies the format of the minimum client version that can implement the rule. Attributes of type **minRequiredVersionType** take the form of 4 16-bit

integers separated by periods. The first integer MUST be present. The last three integers SHOULD be present. [54](#)

```
<xs:simpleType name="minRequiredVersionType">
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-6]?[0-9]{1,4}(\.[0-6]?[0-9]{1,4}){0,3}" />
  </xs:restriction>
</xs:simpleType>
```

#### 3.1.4.1.4.4 mce:NameType Simple Type

The **NameType** simple type specifies a string format that has a minimum length of one character; has a maximum length of 256 characters; and does not contain a carriage return, a line feed, or a tab character. [55](#)

```
<xs:simpleType name="NameType">
  <xs:restriction base="xs:normalizedString">
    <xs:minLength value="1" />
    <xs:maxLength value="256" />
  </xs:restriction>
</xs:simpleType>.
```

#### 3.1.4.1.4.5 mce:OptionalNameType Simple Type

The **OptionalNameType** simple type specifies a string format that has no minimum length; has a maximum length of 256 characters; and does not contain a carriage return, a line feed, or a tab character. [56](#)

```
<xs:simpleType name="OptionalNameType">
  <xs:restriction base="xs:normalizedString">
    <xs:minLength value="0" />
    <xs:maxLength value="256" />
  </xs:restriction>
</xs:simpleType>
```

#### 3.1.4.1.4.6 t:ProtectionRuleActionKindType Simple Type

The **ProtectionRuleActionKindType** simple type specifies the actions that are supported by the protection rules.

```
<xs:simpleType name="ProtectionRuleActionKindType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="RightsProtectMessage" />
  </xs:restriction>
</xs:simpleType>
```

The following table lists the value that is defined by the **ProtectionRuleActionKindType** simple type.

Value	Meaning
<b>RightsProtectMessage</b>	The specific permission template to apply to the message.

Only the **RightsProtectMessage** action is supported. The value MUST be **RightsProtectMessage**. The protection rules are used to apply a specific set of permissions.

#### 3.1.4.1.4.7 t:ProtectionRuleAllInternalType Simple Type

The **ProtectionRuleAllInternalType** simple type specifies the **AllInternal** predicate. The semantics of the **AllInternal** predicate is that the predicate evaluates to "true" if all recipients (1) of the email message are internal to the organization of the sender of that email message.

```
<xs:simpleType name="ProtectionRuleAllInternalType">
  <xs:restriction base="xs:string">
    <xs:length value="0" />
  </xs:restriction>
</xs:simpleType>
```

#### 3.1.4.1.4.8 t:ProtectionRuleTrueType Simple Type

The **ProtectionRuleTrueType** simple type specifies the **True** predicate. The semantics of the **True** predicate is that the condition always evaluates to "true".

```
<xs:simpleType name="ProtectionRuleTrueType">
  <xs:restriction base="xs:string">
    <xs:length value="0" />
  </xs:restriction>
</xs:simpleType>
```

#### 3.1.4.1.4.9 t:ProtectionRuleValueType Simple Type

The **ProtectionRuleValueType** simple type specifies additional arguments to the **RecipientIs** predicate of the **ProtectionRuleRecipientIsType** complex type, as specified in section [3.1.4.1.3.41](#), and the **SenderDepartments** predicate of the **ProtectionRuleSenderDepartmentsType** complex type, as specified in section [3.1.4.1.3.42](#). The value MUST be a string with a minimum length of one character.

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

#### 3.1.4.1.4.10 mce:ProbabilityType Simple Type

The **ProbabilityType** simple type specifies the degree of confidence that the server rule processing engines have identified a matching item. The confidence level has to be a value between 1 and 100. [<57>](#)

```
<xs:simpleType name="ProbabilityType">
  <xs:restriction base="xs:integer">
    <xs:minInclusive value="1"/>
    <xs:maxInclusive value="100"/>
  </xs:restriction>
</xs:simpleType>
```

```

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

```

#### 3.1.4.1.4.11 mce:ProximityType Simple Type

The **ProximityType** simple type specifies the threshold for how far apart the primary match and the corroborative evidences can be in order for the entity or affinity to be considered a match. [<58>](#)

```

<xs:simpleType name="ProximityType">
  <xs:restriction base="xs:positiveInteger">
    <xs:minInclusive value="1"/>
  </xs:restriction>
</xs:simpleType>

```

#### 3.1.4.1.4.12 mce:RestrictedTermType Simple Type

The **RestrictedTermType** simple type specifies the terms for keyword-based processing. The minimum length can be one character; the maximum length MUST be 100 characters. [<59>](#)

```

<xs:simpleType name="RestrictedTermType">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="100"/>
  </xs:restriction>
</xs:simpleType>

```

#### 3.1.4.1.4.13 mce:RulePackNameType Simple Type

The **RulePackNameType** simple type specifies the format of a rule pack name. A rule pack name MUST have no fewer than one character and no more than 64 characters. A rule pack name MUST NOT contain a carriage return, a line feed, a tab character, leading spaces, trailing spaces, or sequences of two or more spaces. [<60>](#)

```

<xs:simpleType name="RulePackNameType">
  <xs:restriction base="xs:token">
    <xs:minLength value="1"/>
    <xs:maxLength value="64"/>
  </xs:restriction>
</xs:simpleType>

```

#### 3.1.4.1.4.14 t:ServiceConfigurationType Simple Type

The **ServiceConfigurationType** simple type specifies the service configurations that are returned in the response.

```

<xs:simpleType name="ServiceConfigurationType">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="MailTips" />
        <xs:enumeration value="UnifiedMessagingConfiguration" />
        <xs:enumeration value="ProtectionRules" />
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>

```



```

        <xs:enumeration value="PolicyNudges" />
    </xs:restriction>
</xs:simpleType>
</xs:list>
</xs:simpleType>

```

The following table lists the values that are defined by the **ServiceConfigurationType** simple type.

Value	Meaning
<b>MailTips</b>	Represents the mail tips service configuration.
<b>UnifiedMessagingConfiguration</b>	Represents the Unified Messaging service configuration.
<b>ProtectionRules</b>	Represents the protection rules service configuration.
<b>PolicyNudges</b>	Represents the DLP service configuration. <a href="#">&lt;61&gt;</a>

#### 3.1.4.1.4.15 mce:WorkloadType Simple Type

The **WorkloadType** simple type is not used. [<62>](#)

```

<xs:simpleType name="WorkloadType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Exchange"/>
    <xs:enumeration value="Outlook"/>
  </xs:restriction>
</xs:simpleType>

```

#### 3.1.4.1.4.16 yesnoType Simple Type

The **yesnoType** simple type specifies whether override or false positive settings are enabled. [<63>](#)

```

<xs:simpleType name="yesnoType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="yes" />
    <xs:enumeration value="no" />
  </xs:restriction>
</xs:simpleType>

```

The following table lists the values that are defined by the **yesnoType** simple type.

Value	Description
yes	Indicates that the setting is enabled.
no	Indicates that the setting is disabled.

#### 3.1.4.1.5 Attributes

This specification does not define any specific XML schema attribute definitions for this operation.

#### **3.1.4.1.6 Groups**

This specification does not define any specific XML schema group definitions for this operation.

#### **3.1.4.1.7 Attribute Groups**

This specification does not define any specific XML schema attribute group definitions for this operation.

#### **3.1.5 Timer Events**

None.

#### **3.1.6 Other Local Events**

None.

## 4 Protocol Examples

### 4.1 GetServiceConfiguration Operation Request

The following example shows how to get mail tips for a user by using the **GetServiceConfiguration** operation, as described in section [3.1.4.1](#). The request is for the mail tips configuration for user1.

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>

  <soap:Body>
    <GetServiceConfiguration
      xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ActingAs>
        <t:EmailAddress>user1@contoso.com</t:EmailAddress>
        <t:RoutingType>SMTP</t:RoutingType>
      </ActingAs>
      <RequestedConfiguration>
        <ConfigurationName>MailTips</ConfigurationName>
      </RequestedConfiguration>
    </GetServiceConfiguration>
  </soap:Body>
</soap:Envelope>
```

### 4.2 GetServiceConfiguration Operation Response

The following XML shows a successful response from the **GetServiceConfiguration** service request in section [4.2](#).

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
      MinorVersion="0"
      MajorBuildNumber="482"
      MinorBuildNumber="17"
      Version="Exchange2010"
      xmlns:h="http://schemas.microsoft.com/exchange/
        services/2006/types"
      xmlns="http://schemas.microsoft.com/exchange/
        services/2006/types"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetServiceConfigurationResponse ResponseClass="Success"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseCode>NoError</ResponseCode>
    </GetServiceConfigurationResponse>
  </s:Body>
</s:Envelope>
```

```

<ResponseMessages>
  <ServiceConfigurationResponseMessageType ResponseClass="Success">
    <ResponseCode>NoError</ResponseCode>
    <m:MailTipsConfiguration
      xmlns:m="http://schemas.microsoft.com/exchange/services/
        2006/messages">
      <t:MaxRecipientsPerGetMailTipsRequest
        xmlns:t="http://schemas.microsoft.com/exchange/services/
          2006/types">
        50
      </t:MaxRecipientsPerGetMailTipsRequest>
      <t:MaxMessageSize
        xmlns:t="http://schemas.microsoft.com/exchange/services/
          2006/types">
        10485760
      </t:MaxMessageSize>
      <t:LargeAudienceThreshold
        xmlns:t="http://schemas.microsoft.com/exchange/services/
          2006/types">
        25
      </t:LargeAudienceThreshold>
      <t>ShowExternalRecipientCount
        xmlns:t="http://schemas.microsoft.com/exchange/services/
          2006/types">
        false
      </t>ShowExternalRecipientCount>
      <t:InternalDomains
        xmlns:t="http://schemas.microsoft.com/exchange/services/
          2006/types">
        <t:Domain Name="contoso.com" IncludeSubdomains="false"/>
        <t:Domain Name="fabrikam.com" IncludeSubdomains="false"/>
        <t:Domain Name="example.com" IncludeSubdomains="false"/>
      </t:InternalDomains>
    </m:MailTipsConfiguration>
  </ServiceConfigurationResponseMessageType>
</ResponseMessages>
</GetServiceConfigurationResponse>
</s:Body>
</s:Envelope>

```

## 4.3 Unsuccessful GetServiceConfiguration Operation Response

### 4.3.1 SOAP Exception

The following XML shows a SOAP fault caused by the failure of request schema validation. The **GetServiceConfiguration** operation request, as described in section [3.1.4.1](#), was called. The request failed because it did not include a required element in the **GetServiceConfigurationType** complex type, as described in section [3.1.4.1.3.19](#).

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <s:Fault>
      <faultcode
        xmlns:a="http://schemas.microsoft.com/exchange/services/
          2006/types">

```

```

        a:ErrorSchemaValidation
    </faultcode>
    <faultstring xml:lang="en-US">The request failed schema validation: The
    element 'RequestedConfiguration' in namespace
    'http://schemas.microsoft.com/exchange/services/2006/messages'
    has incomplete content. List of possible elements expected:
    'ConfigurationName' in namespace
    'http://schemas.microsoft.com/exchange/services/2006/messages'.
    </faultstring>
    <detail>
        <e:ResponseCode
            xmlns:e="http://schemas.microsoft.com/exchange/services/2006/errors">
            ErrorSchemaValidation
        </e:ResponseCode>
        <e:Message
            xmlns:e="http://schemas.microsoft.com/exchange/services/2006/errors">
            The request failed schema validation.
        </e:Message>
        <e:MessageXml
            xmlns:e="http://schemas.microsoft.com/exchange/services/2006/errors">
            <t:LineNumber
                xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
                16
            </t:LineNumber>
            <t:LinePosition
                xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
                9
            </t:LinePosition>
            <t:Violation
                xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
                The element 'RequestedConfiguration' in namespace
                'http://schemas.microsoft.com/exchange/services/2006/messages'
                has incomplete content. List of possible elements expected:
                'ConfigurationName' in namespace
                'http://schemas.microsoft.com/exchange/services/2006/messages'.
            </t:Violation>
        </e:MessageXml>
    </detail>
</s:Fault>
</s:Body>
</s:Envelope>

```

### 4.3.2 GetServiceConfiguration Operation Error Response

The following example shows the error response that occurs when the user specified in the **ActingAs** element of the **GetServiceConfigurationType** complex type, as described in section [3.1.4.1.3.19](#), is not found in the directory.

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Header>
        <h:ServerVersionInfo MajorVersion="14"
            MinorVersion="0"
            MajorBuildNumber="482"
            MinorBuildNumber="17"
            Version="Exchange2010"
            xmlns:h="http://schemas.microsoft.com/exchange/

```

```

        services/2006/types"
        xmlns="http://schemas.microsoft.com/exchange/
        services/2006/types"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
</s:Header>
<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <GetServiceConfigurationResponse ResponseClass="Error"
    xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <MessageText>The ActingAs parameter does not match a user in the
      directory.</MessageText>
    <ResponseCode>ErrorInvalidArgument</ResponseCode>
    <DescriptiveLinkKey>0</DescriptiveLinkKey>
  </GetServiceConfigurationResponse>
</s:Body>
</s:Envelope>

```

## **5 Security**

### **5.1 Security Considerations for Implementers**

None.

### **5.2 Index of Security Parameters**

None.

## 6 Appendix A: Full WSDL

The XML files that are listed in the following table are required in order to implement the functionality specified in this document.

File name	Description	Section
MS-OXWCONFIG.wsdl	Contains the WSDL for the implementation of this protocol.	<a href="#">6</a>
MS-OXWCONFIG-messages.xsd	Contains the XML schema message definitions that are used in this protocol.	<a href="#">7.6</a>
MS-OXWCONFIG-types.xsd	Contains the XML schema type definitions that are used in this protocol.	<a href="#">7.9</a>

These files have to be placed in a common folder in order for the WSDL to validate and operate. Also, any schema files that are included in or imported into the MS-OXWCONFIG-types.xsd or MS-OXWCONFIG-messages.xsd schemas have to be placed in the common folder with these files.

This section contains the contents of the MS-OXWCONFIG.wsdl file.

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
  targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  <wsdl:types>
    <xs:schema id="messages" elementFormDefault="qualified"
      version="Exchange2013"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      targetNamespace="http://schemas.microsoft.com/exchange/
        services/2006/messages">
      <xs:include schemaLocation="MS-OXWCONFIG-messages.xsd"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:message name="GetServiceConfigurationSoapIn">
    <wsdl:part name="request" element="tns:GetServiceConfiguration"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  </wsdl:message>
  <wsdl:message name="GetServiceConfigurationSoapOut">
    <wsdl:part name="GetServiceConfigurationResult"
      element="tns:GetServiceConfigurationResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="GetServiceConfiguration">
      <wsdl:input message="tns:GetServiceConfigurationSoapIn"/>
      <wsdl:output message="tns:GetServiceConfigurationSoapOut"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="ExchangeServiceBinding" type="tns:ExchangeServicePortType">
    <wsdl:documentation>
      <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.0"

```



```

        xmlns:ws="http://ws-i.org/schemas/conformanceClaim/">
    </wsdl:documentation>
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"
        style="document"/>
    <wsdl:operation name="GetServiceConfiguration">
        <soap:operation
            soapAction="http://schemas.microsoft.com/exchange/
                services/2006/messages/GetServiceConfiguration"/>
        <wsdl:input>
            <soap:body parts="request" use="literal"/>
            <soap:header message="tns:GetServiceConfigurationSoapIn"
                part="Impersonation" use="literal"/>
            <soap:header message="tns:GetServiceConfigurationSoapIn"
                part="RequestVersion" use="literal"/>
            <soap:header message="tns:GetServiceConfigurationSoapIn"
                part="MailboxCulture" use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body parts="GetServiceConfigurationResult" use="literal"/>
            <soap:header message="tns:GetServiceConfigurationSoapOut"
                part="ServerVersion" use="literal"/>
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

## 7 Appendix B: Full XML Schema

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

Schema name	Prefix	Section
Messages schema	m:	<a href="#">7.6</a>
Types schema	t:	<a href="#">7.9</a>

These files have to be placed in a common folder in order for the WSDL to validate and operate. Also, any schema files that are included in or imported into the MS-OXWCONFIG-types.xsd or MS-OXWCONFIG-messages.xsd schemas have to be placed in the common folder along with the files listed in the table.

### 7.1 Classification Rule Package Container Type Schema

This section contains the contents of the ClassificationRulePackageContainerSchemaType.xsd file and information about additional files that this schema file requires to operate correctly. [<64>](#)

ClassificationRulePackageContainerSchemaType.xsd includes and imports the file listed in the following table. This file has to be placed in a common folder in order for the schema to validate and operate. Also, any schema files that are included in or imported into the ClassificationRulePackageContainerSchemaType.xsd schema have to be placed in the common folder along with the file listed in the table.

File name	Defining section
RulePackageTypes.xsd	<a href="#">7.8</a>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:mce="http://schemas.microsoft.com/office/2011/mce"
  targetNamespace="http://schemas.microsoft.com/office/2011/mce"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified">
  <xs:include schemaLocation="RulePackageTypes.xsd" />
  <xs:complexType name="RulePackageContainerType">
    <xs:sequence>
      <xs:element name="RulePackage" type="mce:RulePackageType" />
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

### 7.2 DLP Rule Schema

This section contains the contents of the PolicyNudgeRuleSchema.xsd file and information about additional files that this schema file requires to operate correctly. [<65>](#)

PolicyNudgeRuleSchema.xsd includes the file listed in the following table. This file has to be placed in a common folder in order for the schema to validate and operate. Also, any schema files that are included in or imported into the PolicyNudgeRuleSchema.xsd schemas have to be placed in the common folder along with the files listed in the table.

File name	Defining section
PolicyNudgeRuleSchemaTypes.xsd	<a href="#">7.3</a>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  elementFormDefault="qualified"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:include schemaLocation="PolicyNudgeRuleSchemaTypes.xsd" />
  <xs:element name="rule" type="ruleType" />
</xs:schema>
```

## 7.3 DLP Rule Types Schema

This section contains the contents of the PolicyNudgeRuleSchemaTypes.xsd file. [66](#)

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  elementFormDefault="qualified"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:complexType name="ruleType">
    <xs:sequence>
      <xs:element name="version" type="versionType" minOccurs="1"
        maxOccurs="unbounded" />
    </xs:sequence>
    <xs:attribute name="name" type="xs:string" use="required" />
    <xs:attribute name="id" type="xs:string" use="required" />
    <xs:attribute name="description" type="xs:string" use="required" />
  </xs:complexType>

  <xs:complexType name="versionType">
    <xs:sequence>
      <xs:element name="condition" type="predicateElementSingleChildType" />
      <xs:element name="actions" type="actionsType" />
    </xs:sequence>
    <xs:attribute name="minRequiredVersion" type="minRequiredVersionType"
      use="required" />
  </xs:complexType>

  <xs:simpleType name="minRequiredVersionType">
    <xs:restriction base="xs:string">
      <xs:pattern value="[0-6]?[0-9]{1,4}(\.[0-6]?[0-9]{1,4}){0,3}" />
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="predicateElementSingleChildType">
    <xs:choice>
      <xs:element name="and" type="predicateElementMultipleChildType" />
      <xs:element name="classification" type="classificationType" />
      <xs:element name="classifications" type="predicateElementSingleChildType" />
      <xs:element name="false" type="predicateElementConstantType" />
      <xs:element name="not" type="predicateElementSingleChildType" />
      <xs:element name="or" type="orType" />
      <xs:element name="recipient" type="recipientType" />
      <xs:element name="recipients" type="predicateElementSingleChildType" />
    </xs:choice>
  </xs:complexType>
```

```

        <xs:element name="sender" type="senderType" />
        <xs:element name="senders" type="predicateElementSingleChildType" />
        <xs:element name="true" type="predicateElementConstantType" />
    </xs:choice>
</xs:complexType>

<xs:complexType name="predicateElementMultipleChildType">
    <xs:choice minOccurs="1" maxOccurs="unbounded">
        <xs:element name="and" type="predicateElementMultipleChildType" />
        <xs:element name="classification" type="classificationType" />
        <xs:element name="classifications" type="predicateElementSingleChildType" />
        <xs:element name="false" type="predicateElementConstantType" />
        <xs:element name="not" type="predicateElementSingleChildType" />
        <xs:element name="or" type="orType" />
        <xs:element name="recipient" type="recipientType" />
        <xs:element name="recipients" type="predicateElementSingleChildType" />
        <xs:element name="sender" type="senderType" />
        <xs:element name="senders" type="predicateElementSingleChildType" />
        <xs:element name="true" type="predicateElementConstantType" />
    </xs:choice>
</xs:complexType>

<xs:complexType name="predicateElementConstantType" />

<xs:complexType name="classificationType">
    <xs:attribute name="rulePackId" type="xs:string" use="required" />
    <xs:attribute name="id" type="xs:string" use="required" />
    <xs:attribute name="minCount" type="xs:integer" use="optional" />
    <xs:attribute name="maxCount" type="xs:integer" use="optional" />
    <xs:attribute name="minConfidence" type="xs:integer" use="optional" />
    <xs:attribute name="maxConfidence" type="xs:integer" use="optional" />
</xs:complexType>

<xs:complexType name="orType">
    <xs:complexContent>
        <xs:extension base="predicateElementMultipleChildType">
            <xs:attribute name="earlyOut" use="optional">
                <xs:simpleType>
                    <xs:restriction base="xs:string">
                        <xs:pattern
value="([Tt][Rr][Uu][Ee])|([Yy]([Ee][Ss])?)|([1])|([Ff][Aa][Ll][Ss][Ee])|([Nn][Oo]?)|([0])"
/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

<xs:complexType name="recipientType">
    <xs:attribute name="address" type="xs:string" use="optional" />
    <xs:attribute name="domain" type="xs:string" use="optional" />
    <xs:attribute name="scope" use="optional">
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="Internal"/>
                <xs:enumeration value="External"/>
                <xs:enumeration value="ExternalNonPartner"/>
                <xs:enumeration value="ExternalPartner"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
</xs:complexType>

```

```

        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>

  <xs:complexType name="senderType">
    <xs:attribute name="address" type="xs:string" use="optional" />
    <xs:attribute name="domain" type="xs:string" use="optional" />
  </xs:complexType>

  <xs:complexType name="actionsType">
    <xs:choice maxOccurs="unbounded">
      <xs:element name="block" type="actionTypeType" />
      <xs:element name="notify" type="actionTypeType" />
    </xs:choice>
  </xs:complexType>

  <xs:complexType name="actionTypeType">
    <xs:sequence>
      <xs:element name="message">
        <xs:complexType>
          <xs:sequence minOccurs="1" maxOccurs="unbounded">
            <xs:element name="locale" type="localeType" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>

      <xs:element name="override">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="justification">
              <xs:complexType>
                <xs:attribute name="type" use="required">
                  <xs:simpleType>
                    <xs:restriction base="xs:string">
                      <xs:enumeration value="none" />
                      <xs:enumeration value="optional" />
                      <xs:enumeration value="required" />
                    </xs:restriction>
                  </xs:simpleType>
                </xs:attribute>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
          <xs:attribute name="allow" type="yesnoType" use="required" />
        </xs:complexType>
      </xs:element>
      <xs:element name="falsePositive">
        <xs:complexType>
          <xs:attribute name="allow" type="yesnoType" use="required" />
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="localeType">
    <xs:sequence>
      <xs:element name="complianceNoteUrl" type="xs:anyURI" nillable="true" />
      <xs:element name="text1" type="xs:string" />
    </xs:sequence>
  </xs:complexType>

```

```

        <xs:element name="text2" type="xs:string" />
        <xs:element name="overrideText" type="xs:string" />
        <xs:element name="text3" type="xs:string" />
    </xs:sequence>
    <xs:attribute name="name" type="xs:language" use="required" />
</xs:complexType>

<xs:simpleType name="yesnoType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="yes" />
        <xs:enumeration value="no" />
    </xs:restriction>
</xs:simpleType>

</xs:schema>

```

## 7.4 DLP Rules Configuration Schema

This section contains the contents of the PolicyNudgeRulesConfigurationSchema.xsd file and information about additional files that this schema file requires to operate correctly. [<67>](#)

PolicyNudgeRulesConfigurationSchema.xsd includes the file listed in the following table. This file has to be placed in a common folder in order for the schema to validate and operate. Also, any schema files that are included in or imported into the PolicyNudgeRulesConfigurationSchema.xsd have to be placed in the common folder along with the files listed in the table.

File name	Defining section
PolicyNudgeRulesConfigurationSchemaTypes.xsd	<a href="#">7.5</a>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
    elementFormDefault="qualified"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:include schemaLocation="PolicyNudgeRulesConfigurationSchemaTypes.xsd" />
    <xs:element name="PolicyNudgeRulesConfiguration" type="PolicyNudgeRulesConfigurationType"
    />
</xs:schema>

```

## 7.5 DLP Rules Configuration Types Schema

This section contains the contents of the PolicyNudgeRulesConfigurationSchemaTypes.xsd file and information about additional files that this schema file requires to operate correctly. [<68>](#)

PolicyNudgeRulesConfigurationSchemaTypes.xsd includes or imports the files listed in the following table. To operate correctly, these files have to be present in the folder that contains the PolicyNudgeRulesConfigurationSchemaTypes file.

File name	Defining section
PolicyNudgeRuleSchemaTypes.xsd	<a href="#">7.3</a>
ClassificationRulePackageContainerSchemaType.xsd	<a href="#">7.1</a>

```

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

```

```

<xs:schema
  elementFormDefault="qualified"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:mce="http://schemas.microsoft.com/office/2011/mce"
>

  <xs:include schemaLocation="PolicyNudgeRuleSchemaTypes.xsd" />
  <xs:import namespace="http://schemas.microsoft.com/office/2011/mce"
    schemaLocation="ClassificationRulePackageContainerSchemaType.xsd" />

  <xs:complexType name="PolicyNudgeRulesConfigurationType">
    <xs:sequence>
      <xs:element name="PolicyNudgeRules" type="PolicyNudgeRulesType">
        <xs:unique name="ruleNameUnique">
          <xs:selector xpath="PolicyNudgeRule/rule" />
          <xs:field xpath="@name"/>
        </xs:unique>
        <xs:unique name="policyNudgeRuleIDUnique">
          <xs:selector xpath="PolicyNudgeRule" />
          <xs:field xpath="@id"/>
        </xs:unique>
      </xs:element>
      <xs:element name="ClassificationDefinitions"
        type="ClassificationDefinitionsType">
        <xs:unique name="classificationDefinitionIDUnique">
          <xs:selector xpath="ClassificationDefinition" />
          <xs:field xpath="@id"/>
        </xs:unique>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="ApplyType">
    <xs:attribute name="apply" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:pattern value="([Tt][Rr][Uu][Ee])|([Ff][Aa][Ll][Ss][Ee])" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>

  <xs:complexType name="PolicyNudgeRulesType">
    <xs:complexContent>
      <xs:extension base="ApplyType">
        <xs:sequence>
          <xs:element name="PolicyNudgeRule" type="PolicyNudgeRuleType"
            minOccurs="0" maxOccurs="unbounded" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="PolicyNudgeRuleType">
    <xs:sequence>
      <xs:element name="rule" type="ruleType" />
    </xs:sequence>
    <xs:attribute name="id" type="xs:string" use="required" />
    <xs:attribute name="version" type="xs:long" use="required" />
  </xs:complexType>

```

```

    <xs:anyAttribute processContents="skip" />
  </xs:complexType>

  <xs:complexType name="ClassificationDefinitionsType">
    <xs:complexContent>
      <xs:extension base="ApplyType">
        <xs:sequence>
          <xs:element name="ClassificationDefinition"
            type="ClassificationDefinitionType" minOccurs="0"
            maxOccurs="unbounded" />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

  <xs:complexType name="ClassificationDefinitionType">
    <xs:complexContent>
      <xs:extension base="mce:RulePackageContainerType">
        <xs:attribute name="id" type="xs:string" use="required" />
        <xs:attribute name="version" type="xs:long" use="required" />
        <xs:anyAttribute processContents="skip" />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:schema>

```

## 7.6 Messages Schema

This section contains the contents of the MS-OXWCONFIG-messages.xsd file and information about additional files that this schema file requires to operate correctly.

MS-OXWCONFIG-messages.xsd includes and imports the files listed in the following table. These files have to be placed in a common folder in order for the schema to validate and operate. Also, any schema files that are included in or imported into the MS- OXWCONFIG-messages.xsd schema have to be placed in the common folder along with the files listed in the table.

File name	Defining section/specification
MS-OXWSCDATA-messages.xsd	<a href="#">[MS-OXWSCDATA]</a> section 7.1
MS-OXWCONFIG-types.xsd	<a href="#">7.9</a>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
  elementFormDefault="qualified" version="Exchange2013" id="messages">
  <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"
    schemaLocation="MS-OXWCONFIG-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
  <xs:complexType name="ArrayOfServiceConfigurationResponseMessageType">
    <xs:sequence>
      <xs:element name="ServiceConfigurationResponseMessageType"
        type="m:ServiceConfigurationResponseMessageType" minOccurs="1"
        maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>

```



```

</xs:complexType>
<xs:complexType name="ArrayOfServiceConfigurationType">
  <xs:choice minOccurs="1" maxOccurs="unbounded">
    <xs:element name="ConfigurationName" type="t:ServiceConfigurationType"/>
  </xs:choice>
</xs:complexType>
<xs:complexType name="GetServiceConfigurationResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="ResponseMessages"
          type="m:ArrayOfServiceConfigurationResponseMessageType" minOccurs="0"
          maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="GetServiceConfigurationType">
  <xs:complexContent>
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="ActingAs"
          type="t:EmailAddressType"/>
        <xs:element minOccurs="1" maxOccurs="1"
          name="RequestedConfiguration"
          type="m:ArrayOfServiceConfigurationType"/>
        <xs:element minOccurs="0" maxOccurs="1"
          name="ConfigurationRequestDetails"
          type="t:ConfigurationRequestDetailsType" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ServiceConfigurationResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="MailTipsConfiguration"
          type="t:MailTipsServiceConfiguration" minOccurs="0" maxOccurs="1"/>
        <xs:element name="UnifiedMessagingConfiguration"
          type="t:UnifiedMessageServiceConfiguration" minOccurs="0"
          maxOccurs="1"/>
        <xs:element name="ProtectionRulesConfiguration"
          type="t:ProtectionRulesServiceConfiguration" minOccurs="0" maxOccurs="1"/>
        <xs:element name="PolicyNudgeRulesConfiguration"
          type="t:PolicyNudgeRulesServiceConfiguration" minOccurs="0"
          maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="GetServiceConfiguration"
  type="m:GetServiceConfigurationType"/>
<xs:element name="GetServiceConfigurationResponse"
  type="m:GetServiceConfigurationResponseMessageType"/>
</xs:schema>

```

## 7.7 Rule Package Schema

This section contains the contents of the RulePackage.xsd file and information about additional files that this schema file requires to operate correctly. [<69>](#)

RulePackage.xsd includes the file listed in the following table. To operate correctly, these files have to be present in the folder that contains the RulePackage.xsd file.

File name	Defining section
RulePackageTypes.xsd	<a href="#">7.8</a>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:mce="http://schemas.microsoft.com/office/2011/mce"
  targetNamespace="http://schemas.microsoft.com/office/2011/mce"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified"
  id="RulePackageSchema">
  <xs:include schemaLocation="RulePackageTypes.xsd"/>
  <xs:element name="RulePackage" type="mce:RulePackageType"/>
</xs:schema>
```

## 7.8 Rule Package Types Schema

This section contains the contents of the RulePackageTypes.xsd file. [<70>](#)

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:mce="http://schemas.microsoft.com/office/2011/mce"
  targetNamespace="http://schemas.microsoft.com/office/2011/mce"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified"
  id="RulePackageSchema">
  <xs:simpleType name="LangType">
    <xs:union memberTypes="xs:language">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value=""/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
  <xs:simpleType name="GuidType" final="#all">
    <xs:restriction base="xs:token">
      <xs:pattern value="[0-9a-fA-F]{8}\-([0-9a-fA-F]{4}\-){3}[0-9a-fA-F]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="RulePackageType">
    <xs:sequence>
      <xs:element name="RulePack" type="mce:RulePackType"/>
      <xs:element name="Rules" type="mce:RulesType">
        <xs:key name="UniqueRuleId">
          <xs:selector xpath="mce:Entity|mce:Affinity"/>
          <xs:field xpath="@id"/>
        </xs:key>
        <xs:key name="UniqueProcessorId">
```

```

        <xs:selector xpath="mce:Regex|mce:Keyword"></xs:selector>
        <xs:field xpath="@id"/>
    </xs:key>
    <xs:key name="UniqueResourceIdRef">
        <xs:selector xpath="mce:LocalizedStrings/mce:Resource"/>
        <xs:field xpath="@idRef"/>
    </xs:key>
    <xs:keyref name="ReferencedRuleMustExist" refer="mce:UniqueRuleId">
        <xs:selector xpath="mce:LocalizedStrings/mce:Resource"/>
        <xs:field xpath="@idRef"/>
    </xs:keyref>
    <xs:keyref name="RuleMustHaveResource" refer="mce:UniqueResourceIdRef">
        <xs:selector xpath="mce:Entity|mce:Affinity"/>
        <xs:field xpath="@id"/>
    </xs:keyref>
</xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="RulePackType">
    <xs:sequence>
        <xs:element name="Version" type="mce:VersionType"/>
        <xs:element name="Publisher" type="mce:PublisherType"/>
        <xs:element name="Details" type="mce:DetailsType">
            <xs:key name="UniqueLangCodeInLocalizedDetails">
                <xs:selector xpath="mce:LocalizedDetails"/>
                <xs:field xpath="@langcode"/>
            </xs:key>
            <xs:keyref name="DefaultLangCodeMustExist"
                refer="mce:UniqueLangCodeInLocalizedDetails">
                <xs:selector xpath="."/>
                <xs:field xpath="@defaultLangCode"/>
            </xs:keyref>
        </xs:element>
        <xs:element name="Encryption" type="mce:EncryptionType" minOccurs="0"
            maxOccurs="1"/>
    </xs:sequence>
    <xs:attribute name="id" type="mce:GuidType" use="required"/>
</xs:complexType>
<xs:complexType name="VersionType">
    <xs:attribute name="major" type="xs:unsignedShort" use="required"/>
    <xs:attribute name="minor" type="xs:unsignedShort" use="required"/>
    <xs:attribute name="build" type="xs:unsignedShort" use="required"/>
    <xs:attribute name="revision" type="xs:unsignedShort" use="required"/>
</xs:complexType>
<xs:complexType name="PublisherType">
    <xs:attribute name="id" type="mce:GuidType" use="required"/>
</xs:complexType>
<xs:complexType name="LocalizedDetailsType">
    <xs:sequence>
        <xs:element name="PublisherName" type="mce:NameType"/>
        <xs:element name="Name" type="mce:RulePackNameType"/>
        <xs:element name="Description" type="mce:OptionalNameType"/>
    </xs:sequence>
    <xs:attribute name="langcode" type="mce:LangType" use="required"/>
</xs:complexType>
<xs:complexType name="DetailsType">
    <xs:sequence>
        <xs:element name="LocalizedDetails" type="mce:LocalizedDetailsType"
            maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

```

```

    </xs:sequence>
    <xs:attribute name="defaultLangCode" type="mce:LangType" use="required"/>
  </xs:complexType>
  <xs:complexType name="EncryptionType">
    <xs:sequence>
      <xs:element name="Key" type="xs:normalizedString"/>
      <xs:element name="IV" type="xs:normalizedString"/>
    </xs:sequence>
  </xs:complexType>
  <xs:simpleType name="RulePackNameType">
    <xs:restriction base="xs:token">
      <xs:minLength value="1"/>
      <xs:maxLength value="64"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="NameType">
    <xs:restriction base="xs:normalizedString">
      <xs:minLength value="1"/>
      <xs:maxLength value="256"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="OptionalNameType">
    <xs:restriction base="xs:normalizedString">
      <xs:minLength value="0"/>
      <xs:maxLength value="256"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="RestrictedTermType">
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
      <xs:maxLength value="100"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="RulesType">
    <xs:sequence>
      <xs:choice maxOccurs="unbounded">
        <xs:element name="Entity" type="mce:EntityType"/>
        <xs:element name="Affinity" type="mce:AffinityType"/>
      </xs:choice>
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element name="Regex" type="mce:RegexType"/>
        <xs:element name="Keyword" type="mce:KeywordType"/>
      </xs:choice>
      <xs:element name="LocalizedStrings" type="mce:LocalizedStringsType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="EntityType">
    <xs:sequence>
      <xs:element name="Pattern" type="mce:PatternType" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="id" type="mce:GuidType" use="required"/>
    <xs:attribute name="patternsProximity" type="mce:ProximityType"
      use="required"/>
    <xs:attribute name="recommendedConfidence" type="mce:ProbabilityType"/>
    <xs:attribute name="workload" type="mce:WorkloadType"/>
  </xs:complexType>
  <xs:complexType name="PatternType">
    <xs:sequence>
      <xs:element name="IdMatch" type="mce:IdMatchType"/>
    </xs:sequence>
  </xs:complexType>

```

```

    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element name="Match" type="mce:MatchType"/>
      <xs:element name="Any" type="mce:AnyType"/>
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="confidenceLevel" type="mce:ProbabilityType"
    use="required"/>
</xs:complexType>
<xs:complexType name="AffinityType">
  <xs:sequence>
    <xs:element name="Evidence" type="mce:EvidenceType" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="id" type="mce:GuidType" use="required"/>
  <xs:attribute name="evidencesProximity" type="mce:ProximityType"
    use="required"/>
  <xs:attribute name="thresholdConfidenceLevel" type="mce:ProbabilityType"
    use="required"/>
  <xs:attribute name="workload" type="mce:WorkloadType"/>
</xs:complexType>
<xs:complexType name="EvidenceType">
  <xs:sequence>
    <xs:choice maxOccurs="unbounded">
      <xs:element name="Match" type="mce:MatchType"/>
      <xs:element name="Any" type="mce:AnyType"/>
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="confidenceLevel" type="mce:ProbabilityType"
    use="required"/>
</xs:complexType>
<xs:complexType name="IdMatchType">
  <xs:attribute name="idRef" type="xs:string" use="required"/>
</xs:complexType>
<xs:complexType name="MatchType">
  <xs:attribute name="idRef" type="xs:string" use="required"/>
</xs:complexType>
<xs:complexType name="AnyType">
  <xs:sequence>
    <xs:choice maxOccurs="unbounded">
      <xs:element name="Match" type="mce:MatchType"/>
      <xs:element name="Any" type="mce:AnyType"/>
    </xs:choice>
  </xs:sequence>
  <xs:attribute name="minMatches" type="xs:nonNegativeInteger" default="1"/>
  <xs:attribute name="maxMatches" type="xs:nonNegativeInteger" use="optional"/>
</xs:complexType>
<xs:simpleType name="ProximityType">
  <xs:restriction base="xs:positiveInteger">
    <xs:minInclusive value="1"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ProbabilityType">
  <xs:restriction base="xs:integer">
    <xs:minInclusive value="1"/>
    <xs:maxInclusive value="100"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="WorkloadType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Exchange"/>

```

```

        <xs:enumeration value="Outlook"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="RegexType">
    <xs:simpleContent>
        <xs:extension base="xs:string">
            <xs:attribute name="id" type="xs:token" use="required"/>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:complexType name="KeywordType">
    <xs:sequence>
        <xs:element name="Group" type="mce:GroupType" maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="id" type="xs:token" use="required"/>
</xs:complexType>
<xs:complexType name="GroupType">
    <xs:sequence>
        <xs:choice>
            <xs:element name="Term" type="mce:TermType" maxOccurs="unbounded"/>
        </xs:choice>
    </xs:sequence>
    <xs:attribute name="matchStyle" default="word">
        <xs:simpleType>
            <xs:restriction base="xs:NMTOKEN">
                <xs:enumeration value="word"/>
                <xs:enumeration value="string"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
</xs:complexType>
<xs:complexType name="TermType">
    <xs:simpleContent>
        <xs:extension base="mce:RestrictedTermType">
            <xs:attribute name="caseSensitive" type="xs:boolean" default="false"/>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:complexType name="LocalizedStringsType">
    <xs:sequence>
        <xs:element name="Resource" type="mce:ResourceType" maxOccurs="unbounded">
            <xs:key name="UniqueLangCodeUsedInNamePerResource">
                <xs:selector xpath="mce:Name"/>
                <xs:field xpath="@langcode"/>
            </xs:key>
            <xs:key name="UniqueLangCodeUsedInDescriptionPerResource">
                <xs:selector xpath="mce:Description"/>
                <xs:field xpath="@langcode"/>
            </xs:key>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ResourceType">
    <xs:sequence>
        <xs:element name="Name" type="mce:ResourceNameType" maxOccurs="unbounded"/>
        <xs:element name="Description" type="mce:DescriptionType" minOccurs="0"
            maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attribute name="idRef" type="mce:GuidType" use="required"/>

```

```

</xs:complexType>
<xs:complexType name="ResourceNameType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="default" type="xs:boolean" default="false"/>
      <xs:attribute name="langcode" type="mce:LangType" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:complexType name="DescriptionType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="default" type="xs:boolean" default="false"/>
      <xs:attribute name="langcode" type="mce:LangType" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
</xs:schema>

```

## 7.9 Types Schema

This section contains the contents of the MS-OXWCONFIG-types.xsd file.

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
  elementFormDefault="qualified" version="Exchange2013" id="types">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
  <xs:simpleType name="ProtectionRuleActionKindType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="RightsProtectMessage"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ProtectionRuleAllInternalType">
    <xs:restriction base="xs:string">
      <xs:length value="0"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ProtectionRuleTrueType">
    <xs:restriction base="xs:string">
      <xs:length value="0"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ProtectionRuleValueType">
    <xs:restriction base="xs:string">
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ServiceConfigurationType">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="MailTips"/>
          <xs:enumeration value="UnifiedMessagingConfiguration"/>
          <xs:enumeration value="ProtectionRules"/>
          <xs:enumeration value="PolicyNudges"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>

```

```

        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
<xs:complexType name="MailTipsServiceConfiguration">
  <xs:complexContent>
    <xs:extension base="t:ServiceConfiguration">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="MailTipsEnabled"
          type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1"
          name="MaxRecipientsPerGetMailTipsRequest" type="xs:int"/>
        <xs:element minOccurs="1" maxOccurs="1" name="MaxMessageSize"
          type="xs:int"/>
        <xs:element minOccurs="1" maxOccurs="1" name="LargeAudienceThreshold"
          type="xs:int"/>
        <xs:element minOccurs="1" maxOccurs="1"
          name="ShowExternalRecipientCount" type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1" name="InternalDomains"
          type="t:SmtpDomainList"/>
        <xs:element minOccurs="1" maxOccurs="1"
          name="PolicyTipsEnabled" type="xs:boolean" />
        <xs:element minOccurs="1" maxOccurs="1" name="LargeAudienceCap"
          type="xs:int" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="UnifiedMessageServiceConfiguration">
  <xs:complexContent>
    <xs:extension base="t:ServiceConfiguration">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="UmEnabled"
          type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1" name="PlayOnPhoneDialString"
          type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="PlayOnPhoneEnabled"
          type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ArrayOfProtectionRulesType">
  <xs:sequence>
    <xs:element name="Rule" type="t:ProtectionRuleType" minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ProtectionRuleActionType">
  <xs:sequence>
    <xs:element name="Argument" type="t:ProtectionRuleArgumentType"
      minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="Name" use="required"
    type="t:ProtectionRuleActionKindType"/>
</xs:complexType>
<xs:complexType name="ProtectionRuleAndType">
  <xs:sequence>
    <xs:choice minOccurs="1" maxOccurs="unbounded">

```



```

        <xs:element name="AllInternal" type="t:ProtectionRuleAllInternalType"/>
        <xs:element name="And" type="t:ProtectionRuleAndType"/>
        <xs:element name="RecipientIs" type="t:ProtectionRuleRecipientIsType"/>
        <xs:element name="SenderDepartments"
            type="t:ProtectionRuleSenderDepartmentsType"/>
        <xs:element name="True" type="t:ProtectionRuleTrueType"/>
    </xs:choice>
</xs:sequence>
</xs:complexType>
<xs:complexType name="ProtectionRuleArgumentType">
    <xs:attribute name="Value" use="required">
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:minLength value="1"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
</xs:complexType>
<xs:complexType name="ProtectionRuleConditionType">
    <xs:choice minOccurs="1" maxOccurs="1">
        <xs:element name="AllInternal" type="t:ProtectionRuleAllInternalType"/>
        <xs:element name="And" type="t:ProtectionRuleAndType"/>
        <xs:element name="RecipientIs" type="t:ProtectionRuleRecipientIsType"/>
        <xs:element name="SenderDepartments"
            type="t:ProtectionRuleSenderDepartmentsType"/>
        <xs:element name="True" type="t:ProtectionRuleTrueType"/>
    </xs:choice>
</xs:complexType>
<xs:complexType name="ProtectionRuleRecipientIsType">
    <xs:sequence>
        <xs:element name="Value" type="t:ProtectionRuleValueType" minOccurs="1"
            maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ProtectionRuleSenderDepartmentsType">
    <xs:sequence>
        <xs:element name="Value" type="t:ProtectionRuleValueType" minOccurs="1"
            maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ProtectionRulesServiceConfiguration">
    <xs:complexContent>
        <xs:extension base="t:ServiceConfiguration">
            <xs:sequence>
                <xs:element name="Rules" type="t:ArrayOfProtectionRulesType"
                    minOccurs="1" maxOccurs="1"/>
                <xs:element name="InternalDomains" type="t:SmtpDomainList"
                    minOccurs="1" maxOccurs="1"/>
            </xs:sequence>
            <xs:attribute name="RefreshInterval" use="required">
                <xs:simpleType>
                    <xs:restriction base="xs:int">
                        <xs:minInclusive value="1"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

<xs:complexType name="ProtectionRuleType">
  <xs:sequence>
    <xs:element name="Condition" type="t:ProtectionRuleConditionType"
      minOccurs="1" maxOccurs="1"/>
    <xs:element name="Action" type="t:ProtectionRuleActionType" minOccurs="1"
      maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="Name" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="UserOverridable" type="xs:boolean" use="required"/>
  <xs:attribute name="Priority" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:int">
        <xs:minInclusive value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
<xs:complexType name="ServiceConfiguration"/>
<xs:complexType name="SmtDomain">
  <xs:attribute name="Name" type="xs:string" use="required"/>
  <xs:attribute name="IncludeSubdomains" type="xs:boolean" use="optional"/>
</xs:complexType>
<xs:complexType name="SmtDomainList">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Domain"
      type="t:SmtDomain"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ConfigurationRequestDetailsType">
  <xs:choice minOccurs="1" maxOccurs="1">
    <xs:any processContents="skip" minOccurs="0" maxOccurs="unbounded"
      namespace="##any"/>
  </xs:choice>
</xs:complexType>
<xs:complexType name="PolicyNudgeRulesServiceConfiguration">
  <xs:sequence>
    <xs:any processContents="skip" minOccurs="0" maxOccurs="unbounded"
      namespace="##any"/>
  </xs:sequence>
</xs:complexType>
</xs:schema>

```

## 8 Appendix C: 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 2010
- Microsoft Exchange Server 2013
- Microsoft Outlook 2010
- Microsoft Outlook 2013

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

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

[<1> Section 3.1.4.1.2.3:](#) Exchange 2010 and Outlook 2010 do not include the **PolicyNudgeRulesConfiguration** element, as described in section [3.1.4.1.2.3](#).

[<2> Section 3.1.4.1.2.4:](#) Exchange 2010 and Outlook 2010 do not include the **rule** element, as described in section [3.1.4.1.2.4](#).

[<3> Section 3.1.4.1.2.5:](#) Exchange 2010 and Outlook 2010 do not include the **RulePackage** element, as described in section [3.1.4.1.2.5](#).

[<4> Section 3.1.4.1.3:](#) Exchange 2010 does not use the **PolicyNudgeRulesServiceConfiguration** complex type, as described in section [3.1.4.1.3.30](#).

[<5> Section 3.1.4.1.3.1:](#) Exchange 2010 and Outlook 2010 do not include the **actionsType** complex type, as described in section [3.1.4.1.3.1](#).

[<6> Section 3.1.4.1.3.2:](#) Exchange 2010 and Outlook 2010 do not include the **actionTypeType** complex type, as described in section [3.1.4.1.3.2](#).

[<7> Section 3.1.4.1.3.3:](#) Exchange 2010 and Outlook 2010 do not include the **AffinityType** complex type, as described in section [3.1.4.1.3.3](#).

[<8> Section 3.1.4.1.3.4:](#) Exchange 2010 and Outlook 2010 do not include the **AnyType** complex type, as described in section [3.1.4.1.3.4](#).

[<9> Section 3.1.4.1.3.5:](#) Exchange 2010 and Outlook 2010 do not include the **ApplyType** complex type, as described in section [3.1.4.1.3.5](#).

[<10> Section 3.1.4.1.3.9:](#) Exchange 2010 and Outlook 2010 do not include the **ClassificationDefinitionsType** complex type, as described in section [3.1.4.1.3.9](#).

[<11> Section 3.1.4.1.3.10:](#) Exchange 2010 and Outlook 2010 do not include the **ClassificationDefinitionType** complex type, as described in section [3.1.4.1.3.10](#).

<12> [Section 3.1.4.1.3.11](#): Exchange 2010 and Outlook 2010 do not include the **classificationType** complex type, as described in section [3.1.4.1.3.11](#).

<13> [Section 3.1.4.1.3.12](#): Exchange 2010 and Outlook 2010 do not use the **ConfigurationRequestDetailsType** complex type, as specified in section [3.1.4.1.3.12](#).

<14> [Section 3.1.4.1.3.13](#): Exchange 2010 and Outlook 2010 do not use the **DescriptionType** complex type, as described in section [3.1.4.1.3.13](#).

<15> [Section 3.1.4.1.3.14](#): Exchange 2010 and Outlook 2010 do not include the **DetailsType** complex type, as described in section [3.1.4.1.3.14](#).

<16> [Section 3.1.4.1.3.15](#): Exchange 2010 and Outlook 2010 do not include the **EncryptionType** complex type, as described in section [3.1.4.1.3.15](#).

<17> [Section 3.1.4.1.3.16](#): Exchange 2010 and Outlook 2010 do not include the **EntityType** complex type, as described in section [3.1.4.1.3.16](#).

<18> [Section 3.1.4.1.3.17](#): Exchange 2010 and Outlook 2010 do not include the **EvidenceType** complex type, as described in section [3.1.4.1.3.17](#).

<19> [Section 3.1.4.1.3.19](#): Exchange 2010 and Outlook 2010 do not use the **ConfigurationRequestDetails** element in the **GetServiceConfigurationType** complex type, as described in section [3.1.4.1.3.19](#).

<20> [Section 3.1.4.1.3.20](#): Exchange 2010 and Outlook 2010 do not include the **GroupType** complex type, as described in section [3.1.4.1.3.20](#).

<21> [Section 3.1.4.1.3.21](#): Exchange 2010 and Outlook 2010 do not include the **IdMatchType** complex type, as described in section [3.1.4.1.3.21](#).

<22> [Section 3.1.4.1.3.22](#): Exchange 2010 and Outlook 2010 do not include the **KeywordType** complex type, as described in section [3.1.4.1.3.22](#).

<23> [Section 3.1.4.1.3.23](#): Exchange 2010 and Outlook 2010 do not include the **localeType** complex type, as described in section [3.1.4.1.3.23](#).

<24> [Section 3.1.4.1.3.24](#): Exchange 2010 and Outlook 2010 do not include the **LocalizedDetailsType** complex type, as described in section [3.1.4.1.3.24](#).

<25> [Section 3.1.4.1.3.25](#): Exchange 2010 and Outlook 2010 do not include the **LocalizedStringsType** complex type, as described in section [3.1.4.1.3.25](#).

<26> [Section 3.1.4.1.3.26](#): Exchange 2010 and Outlook 2010 do not include the **MatchType** complex type, as described in section [3.1.4.1.3.26](#).

<27> [Section 3.1.4.1.3.27](#): Exchange 2010 and Outlook 2010 do not include the **PolicyTipsEnabled** element in the **MailTipsServiceConfiguration** complex type, as described in section [3.1.4.1.3.27](#).

<28> [Section 3.1.4.1.3.27](#): Exchange 2010 and Outlook 2010 do not include the **LargeAudienceCap** element in the **MailTipsServiceConfiguration** complex type.

<29> [Section 3.1.4.1.3.28](#): Exchange 2010 and Outlook 2010 do not include the **orType** complex type, as described in section [3.1.4.1.3.28](#).

<30> [Section 3.1.4.1.3.29](#): Exchange 2010 and Outlook 2010 do not include the **orType** complex type, as described in section [3.1.4.1.3.28](#).

<31> [Section 3.1.4.1.3.30](#): Exchange 2010 does not include the **PolicyNudgeRulesServiceConfiguration** complex type, as described in section [3.1.4.1.3.30](#).

<32> [Section 3.1.4.1.3.31](#): Exchange 2010 and Outlook 2010 do not include the **PolicyNudgeRulesConfigurationType** complex type, as described in section [3.1.4.1.3.31](#).

<33> [Section 3.1.4.1.3.32](#): Exchange 2010 and Outlook 2010 do not include the **PolicyNudgeRulesType** complex type, as described in section [3.1.4.1.3.32](#).

<34> [Section 3.1.4.1.3.33](#): Exchange 2010 and Outlook 2010 do not include the **PolicyNudgeRuleType** complex type, as described in section [3.1.4.1.3.33](#).

<35> [Section 3.1.4.1.3.34](#): Exchange 2010 and Outlook 2010 do not include the **predicateElementConstantType** complex type, as described in section [3.1.4.1.3.34](#).

<36> [Section 3.1.4.1.3.35](#): Exchange 2010 and Outlook 2010 do not include the **predicateElementMultipleChildType** complex type, as described in section [3.1.4.1.3.35](#).

<37> [Section 3.1.4.1.3.36](#): Exchange 2010 and Outlook 2010 do not include the **predicateElementSingleChildType** complex type, as described in section [3.1.4.1.3.36](#).

<38> [Section 3.1.4.1.3.45](#): Exchange 2010 and Outlook 2010 do not include the **PublisherType** complex type, as described in section [3.1.4.1.3.45](#).

<39> [Section 3.1.4.1.3.46](#): Exchange 2010 and Outlook 2010 do not include the **recipientType** complex type, as described in section [3.1.4.1.3.46](#).

<40> [Section 3.1.4.1.3.47](#): Exchange 2010 and Outlook 2010 do not include the **RegexType** complex type, as described in section [3.1.4.1.3.47](#).

<41> [Section 3.1.4.1.3.48](#): Exchange 2010 and Outlook 2010 do not include the **ResourceNameType** complex type, as described in section [3.1.4.1.3.48](#).

<42> [Section 3.1.4.1.3.49](#): Exchange 2010 and Outlook 2010 do not include the **ResourceType** complex type, as described in section [3.1.4.1.3.49](#).

<43> [Section 3.1.4.1.3.50](#): Exchange 2010 and Outlook 2010 do not include the **RulePackageContainerType** complex type, as described in section [3.1.4.1.3.50](#).

<44> [Section 3.1.4.1.3.51](#): Exchange 2010 and Outlook 2010 do not include the **RulePackageType** complex type, as described in section [3.1.4.1.3.51](#).

<45> [Section 3.1.4.1.3.52](#): Exchange 2010 and Outlook 2010 do not include the **RulePackType** complex type, as described in section [3.1.4.1.3.52](#).

<46> [Section 3.1.4.1.3.53](#): Exchange 2010 and Outlook 2010 do not include the **ruleType** complex type, as described in section [3.1.4.1.3.53](#).

<47> [Section 3.1.4.1.3.54](#): Exchange 2010 and Outlook 2010 do not include the **RulesType** complex type, as described in section [3.1.4.1.3.54](#).

<48> [Section 3.1.4.1.3.55](#): Exchange 2010 and Outlook 2010 do not include the **senderType** complex type, as described in section [3.1.4.1.3.55](#).

<49> [Section 3.1.4.1.3.57](#): Exchange 2010 does not use the **PolicyNudgeRulesConfiguration** element in the **ServiceConfigurationResponseMessageType** complex type, as specified in section [3.1.4.1.3.57](#).

<50> [Section 3.1.4.1.3.60:](#) Exchange 2010 and Outlook 2010 do not include the **TermType** complex type.

<51> [Section 3.1.4.1.3.63:](#) Exchange 2010 and Outlook 2010 do not include the **versionType** complex type.

<52> [Section 3.1.4.1.4.1:](#) Exchange 2010 and Outlook 2010 do not include the **GuidType** simple type.

<53> [Section 3.1.4.1.4.2:](#) Exchange 2010 and Outlook 2010 do not include the **LangType** simple type, as described in section [3.1.4.1.4.2](#).

<54> [Section 3.1.4.1.4.3:](#) Exchange 2010 and Outlook 2010 do not include the **minRequiredVersion** simple type, as described in section [3.1.4.1.4.3](#).

<55> [Section 3.1.4.1.4.4:](#) Exchange 2010 and Outlook 2010 do not include the **NameType** simple type, as described in section [3.1.4.1.4.4](#).

<56> [Section 3.1.4.1.4.5:](#) Exchange 2010 and Outlook 2010 do not include the **OptionalNameType** simple type, as described in section [3.1.4.1.4.5](#).

<57> [Section 3.1.4.1.4.10:](#) Exchange 2010 and Outlook 2010 do not include the **ProbabilityType** simple type, as described in section [3.1.4.1.4.10](#).

<58> [Section 3.1.4.1.4.11:](#) Exchange 2010 and Outlook 2010 do not include the **ProximityType** simple type, as described in section [3.1.4.1.4.11](#).

<59> [Section 3.1.4.1.4.12:](#) Exchange 2010 and Outlook 2010 do not include the **RestrictedTermType** simple type, as described in section [3.1.4.1.4.12](#).

<60> [Section 3.1.4.1.4.13:](#) Exchange 2010 and Outlook 2010 do not include the **RulePackNameType** simple type, as described in section [3.1.4.1.4.13](#).

<61> [Section 3.1.4.1.4.14:](#) Exchange 2010 does not use the **PolicyNudges** value in the **ServiceConfigurationType** simple type, as described in section [3.1.4.1.4.14](#).

<62> [Section 3.1.4.1.4.15:](#) Exchange 2010 and Outlook 2010 do not include the **WorkloadType** simple type, as described in section [3.1.4.1.4.15](#).

<63> [Section 3.1.4.1.4.16:](#) Exchange 2010 and Outlook 2010 do not include the **yesnoType** simple type, as described in section [3.1.4.1.4.16](#).

<64> [Section 7.1:](#) The classification rule package container type schema is not applicable to Exchange 2010 and Outlook 2010.

<65> [Section 7.2:](#) The DLP rule schema is not applicable to Exchange 2010 and Outlook 2010.

<66> [Section 7.3:](#) The DLP rule types schema is not applicable to Exchange 2010 and Outlook 2010.

<67> [Section 7.4:](#) The DLP rules configuration schema is not applicable to Exchange 2010 and Outlook 2010.

<68> [Section 7.5:](#) The DLP rules configuration types schema is not applicable to Exchange 2010 and Outlook 2010.

<69> [Section 7.7:](#) The rule package schema is not applicable to Exchange 2010 and Outlook 2010.

[<70> Section 7.8:](#) The rule package types schema is not applicable to Exchange 2010 and Outlook 2010.

## 9 Change Tracking

This section identifies changes that were made to the [MS-OXWCONFIG] protocol document between the February 2013 and July 2013 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

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

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

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

The revision class **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.



- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

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

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">1.1 Glossary</a>	Added "Simple Object Access Protocol (SOAP)" and "XML" to the list of terms defined in [MS-GLOS].	N	Content updated.
<a href="#">1.1 Glossary</a>	Added "Uniform Resource Locator (URL)", "web server", and "WSDL operation" to the list of terms defined in [MS-OXGLOS].	N	Content updated.
<a href="#">1.1 Glossary</a>	Added "SOAP action" and "WSDL operation" to the list of terms defined in [MS-OXGLOS].	N	Content updated.
<a href="#">1.2.1 Normative References</a>	Added the references [RFC2616] and [RFC2818].	Y	Content updated.
<a href="#">1.3 Overview</a>	Added that configuration information includes mail tips, protection rules, DLP policy tips, and Unified Messaging.	N	Content updated.
<a href="#">1.7 Versioning and Capability Negotiation</a>	Added versioning information about Localization. Added information about the contents of the RequestVersion element and the ServerVersion element.	N	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">2.1 Transport</a>	Added information about authentication and supported transports and added normative references for HTTP and HTTPS.	Y	Content updated.
<a href="#">2.2.1 Namespaces</a>	Removed targetNamespace from table.	N	Content updated.
<a href="#">3 Protocol Details</a>	Added information about the client side of the protocol.	N	Content updated.
<a href="#">3.1 ExchangeServicePortType Server Details</a>	Added a link to the glossary for the term "WSDL operation."	N	Content updated.
<a href="#">3.1.4.1 GetServiceConfiguration Operation</a>	Added WSDL binding information.	Y	Content updated.
<a href="#">3.1.4.1 GetServiceConfiguration Operation</a>	Specified the successful and unsuccessful return values for the operation and the SOAP fault returned if schema validation fails.	Y	Content updated.
<a href="#">3.1.4.1.1.1 GetServiceConfigurationSoapIn Message</a>	Added WSDL message specification.	N	Content updated.
<a href="#">3.1.4.1.1.1 GetServiceConfigurationSoapIn Message</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.1.2 GetServiceConfigurationSoapOut Message</a>	Added WSDL message specification.	N	Content updated.
<a href="#">3.1.4.1.2 Elements</a>	Changed "policy nudge rules" to "DLP rules".	Y	Content updated.
<a href="#">3.1.4.1.2 Elements</a>	Clarified that the rule element specifies a DLP rule, not the root of the rule pack document.	Y	Content updated.
<a href="#">3.1.4.1.2.3 PolicyNudgeRulesConfiguration Element</a>	Changed "policy nudge rules" to "DLP rules".	Y	Content updated.
<a href="#">3.1.4.1.2.4 rule Element</a>	Changed "policy nudge rule" to "DLP rule".	Y	Content updated.
<a href="#">3.1.4.1.3 Complex Types</a>	Changed "policy nudge rules" to "DLP rules" and "policy nudge rule" to "DLP rules" and "policy nudges" to "policy tips".	Y	Content updated.
<a href="#">3.1.4.1.3.1 actionsType Complex Type</a>	Changed "policy nudge" to "DLP". Added link to type definition.	Y	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">3.1.4.1.3.2 actionTypeType Complex Type</a>	Added links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.3 mce:AffinityType Complex Type</a>	Added links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.4 mce:AnyType Complex Type</a>	Added links to type definitions and added namespace designator.	N	Content updated.
<a href="#">3.1.4.1.3.6 t:ArrayOfProtectionRulesType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.7 m:ArrayOfServiceConfigurationResponseMessageType Complex Type</a>	Changed minOccurs of element from "0" to "1".	Y	Content updated.
<a href="#">3.1.4.1.3.8 m:ArrayOfServiceConfigurationType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.9 ClassificationDefinitionsType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.13 mce:DescriptionType Complex Type</a>	Added link to type definition and namespace designation.	N	Content updated.
<a href="#">3.1.4.1.3.14 mce:DetailsType Complex Type</a>	Added links to type definitions and added namespace designations.	N	Content updated.
<a href="#">3.1.4.1.3.15 mce:EncryptionType Complex Type</a>	Added namespace designations.	N	Content updated.
<a href="#">3.1.4.1.3.16 mce:EntityType Complex Type</a>	Added namespace designations and links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.17 mce:EvidenceType Complex Type</a>	Added namespace designations and links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.18 m:GetServiceConfigurationResponseMessageType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.19 m:GetServiceConfigurationType Complex Type</a>	Changed "policy nudge details" to "DLP details".	Y	Content updated.
<a href="#">3.1.4.1.3.19 m:GetServiceConfigurationType Complex Type</a>	Changed "sender hints" to "mail tips".	N	Content updated.
<a href="#">3.1.4.1.3.19 m:GetServiceConfigurationType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.20 mce:GroupType Complex Type</a>	Added namespace designators and link to type definition.	N	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">3.1.4.1.3.21</a> <a href="#">mce:IdMatchType Complex Type</a>	Added namespace designator.	N	Content updated.
<a href="#">3.1.4.1.3.22</a> <a href="#">mce:KeywordType Complex Type</a>	Added namespace designators and link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.23</a> <a href="#">localeType Complex Type</a>	Added namespace designators.	N	Content updated.
<a href="#">3.1.4.1.3.24</a> <a href="#">mce:LocalizedDetailsType Complex Type</a>	Added namespace designators and links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.25</a> <a href="#">mce:LocalizedStringsType Complex Type</a>	Added namespace designator and link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.26</a> <a href="#">mce:MatchType Complex Type</a>	Added namespace designator.	N	Content updated.
<a href="#">3.1.4.1.3.27</a> <a href="#">t:MailTipsServiceConfiguration Complex Type</a>	Specified that ServiceConfiguration is a complex type and added link to definition.	Y	Content updated.
<a href="#">3.1.4.1.3.27</a> <a href="#">t:MailTipsServiceConfiguration Complex Type</a>	Added the MailTipsEnabled element.	Y	Content updated.
<a href="#">3.1.4.1.3.28</a> <a href="#">orType Complex Type</a>	Added namespace designator.	N	Content updated.
<a href="#">3.1.4.1.3.29</a> <a href="#">mce:PatternType Complex Type</a>	Added namespace designators and links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.30</a> <a href="#">t:PolicyNudgeRulesServiceConfiguration Complex Type</a>	Changed "policy nudge configuration data" to "DLP configuration data".	Y	Content updated.
<a href="#">3.1.4.1.3.31</a> <a href="#">PolicyNudgeRulesConfigurationType Complex Type</a>	Changed "policy nudge rules" to "DLP rules" and "policy nudge rule" to "DLP rule".	Y	Content updated.
<a href="#">3.1.4.1.3.31</a> <a href="#">PolicyNudgeRulesConfigurationType Complex Type</a>	Added namespace designator and links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.32</a> <a href="#">mce:PolicyNudgeRulesType Complex Type</a>	Changed "policy nudge rules" to "DLP rules" and "policy nudge rule" to "DLP rule".	Y	Content updated.
<a href="#">3.1.4.1.3.32</a> <a href="#">mce:PolicyNudgeRulesType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.33</a> <a href="#">PolicyNudgeRuleType Complex Type</a>	Changed "policy nudge rule" to "DLP rule".	Y	Content updated.
<a href="#">3.1.4.1.3.33</a> <a href="#">PolicyNudgeRuleType Complex Type</a>	Added link to type definition.	N	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">3.1.4.1.3.35</a> <a href="#">predicateElementMultipleChildType Complex Type</a>	Added namespace designators and links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.36</a> <a href="#">predicateElementSingleChildType Complex Type</a>	Added namespace designators and links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.37</a> <a href="#">t:ProtectionRuleActionType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.38</a> <a href="#">t:ProtectionRuleAndType Complex Type</a>	Changed "true" from boolean to string value,	Y	Content updated.
<a href="#">3.1.4.1.3.38</a> <a href="#">t:ProtectionRuleAndType Complex Type</a>	Specified that the value "true" is a string value,	Y	Content updated.
<a href="#">3.1.4.1.3.38</a> <a href="#">t:ProtectionRuleAndType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.40</a> <a href="#">t:ProtectionRuleConditionType Complex Type</a>	Specified that the value "true" is a string value.	Y	Content updated.
<a href="#">3.1.4.1.3.40</a> <a href="#">t:ProtectionRuleConditionType Complex Type</a>	Changed the type of the True element from ProtectionRuleAllInternalType to ProtectionRuleTrueType.	Y	Content updated.
<a href="#">3.1.4.1.3.43</a> <a href="#">t:ProtectionRulesServiceConfiguration Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.44</a> <a href="#">t:ProtectionRuleType Complex Type</a>	Added that priority 1 specifies highest priority.	Y	Content updated.
<a href="#">3.1.4.1.3.44</a> <a href="#">t:ProtectionRuleType Complex Type</a>	Added links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.45</a> <a href="#">mce:PublisherType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.46</a> <a href="#">recipientType Complex Type</a>	Added namespace designator.	N	Content updated.
<a href="#">3.1.4.1.3.48</a> <a href="#">mce:ResourceNameType Complex Type</a>	Added link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.48</a> <a href="#">mce:ResourceNameType Complex Type</a>	Added namespace designator and link to type definition.	N	Content updated.
<a href="#">3.1.4.1.3.49</a> <a href="#">mce:ResourceType Complex Type</a>	Added namespace designators and links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.50</a> <a href="#">mce:RulePackageContainerType Complex Type</a>	Added link to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.51</a>	Added link to type definitions.	N	Content

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">mce:RulePackageType Complex Type</a>			updated.
<a href="#">3.1.4.1.3.53 ruleType Complex Type</a>	Changed "policy nudge rule" to "DLP rule".	Y	Content updated.
<a href="#">3.1.4.1.3.54 mce:RulesType Complex Type</a>	Added links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.57 m:ServiceConfigurationResponseMessageType Complex Type</a>	Changed "policy nudge rules" to "DLP rules".	Y	Content updated.
<a href="#">3.1.4.1.3.57 m:ServiceConfigurationResponseMessageType Complex Type</a>	Added type name to schema.	Y	Content updated.
<a href="#">3.1.4.1.3.57 m:ServiceConfigurationResponseMessageType Complex Type</a>	Added links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.58 t:SmtpDomain Complex Type</a>	Added links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.58 t:SmtpDomain Complex Type</a>	Added description of Boolean values and added that default value is "false".	Y	Content updated.
<a href="#">3.1.4.1.3.59 t:SmtpDomainList Complex Type</a>	Specified when the Domain element occurs.	Y	Content removed.
<a href="#">3.1.4.1.3.61 t:UnifiedMessageServiceConfiguration Complex Type</a>	Added links to type definitions.	N	Content updated.
<a href="#">3.1.4.1.3.62 VersionType Complex Type</a>	Added namespace designators.	N	Content updated.
<a href="#">3.1.4.1.4.12 mce:RestrictedTermType Simple Type</a>	Changed maxLength value from 512 to 100.	Y	Content updated.
<a href="#">3.1.4.1.4.14 t:ServiceConfigurationType Simple Type</a>	Changed "policy nudge service configuration" to "DLP service configuration".	Y	Content updated.
<a href="#">4.1 GetServiceConfiguration Operation Request</a>	Changed "sender hints" to "mail tips".	N	Content updated.
<a href="#">7.2 DLP Rule Schema</a>	Changed section title and product behavior note from "Policy Nudge Rule Schema" to "DLP Rule Schema".	N	Content updated.
<a href="#">7.3 DLP Rule Types Schema</a>	Changed section title and behavior note from "Policy	N	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	Nudge Rule Types Schema" to "DLP Rule Types Schema".		
<a href="#">7.4 DLP Rules Configuration Schema</a>	Changed section title and behavior note from "Policy Nudge Rules Configuration Schema" to "DLP Rules Configuration Schema".	N	Content updated.
<a href="#">7.5 DLP Rules Configuration Types Schema</a>	Changed section title and behavior note from "Policy Nudge Rules Configuration Types Schema" to "DLP Rules Configuration Types Schema".	N	Content updated.
<a href="#">7.7 Rule Package Schema</a>	Changed "Rule Package Types Schema" to "Rule Package Schema".	N	Product behavior note updated.
<a href="#">7.8 Rule Package Types Schema</a>	Changed the name of the file from PolicyNudgeRuleSchemaType.xsd to RulePackageTypes.xsd. Changed schema name from "Policy Nudge Rule Types Schema" to "Rule Package Types Schema" in behavior note.	N	Content updated.
<a href="#">7.8 Rule Package Types Schema</a>	Changed maxLength value from 512 to 100.	Y	Content updated.
<a href="#">7.9 Types Schema</a>	Added the MailTipsEnabled element to the MailTipsServiceConfiguration complex type.	Y	Content updated.

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