

[MS-OXWCONFIG]: Web Service Configuration Protocol

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Revision Summary

Date	Revision History	Revision Class	Comments
04/10/2009	.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.
02/11/2013	5.0	No change	No changes to the meaning, language, or formatting of 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)

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

email address
mail tip
mailbox
policy tip
recipient
Simple Mail Transfer Protocol (SMTP)
SOAP fault
Unified Messaging
Web Services Description Language (WSDL)
WSDL message
WSDL port type
XML namespace
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. 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>

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

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.

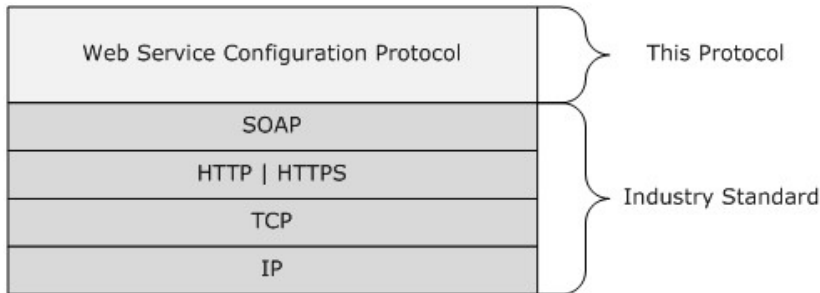


Figure 1: This protocol in relation to other protocols

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 [\[MS-OXWSADISC\]](#).

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 specified in section [2.1](#).
- **Protocol Versions:** This protocol specifies only one **WSDL port type** version.
- **Security and Authentication Methods:** This protocol relies on the Web server that is hosting it to perform authentication.
- **Capability Negotiation:** None.

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

The SOAP version supported is SOAP 1.1. For details, see [\[SOAP1.1\]](#).

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	http://schemas.xmlsoap.org/WSDL/soap/	[SOAP1.1]
tns	http://schemas.microsoft.com/exchange/services/2006/messages	
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
targetNamespace	http://schemas.microsoft.com/exchange/services/2006/messages	
wsdl	http://schemas.xmlsoap.org/WSDL/	[WSDL]
t	http://schemas.microsoft.com/exchange/services/2006/types	
m	http://schemas.microsoft.com/exchange/services/2006/messages	
mce	http://schemas.microsoft.com/office/2011/mce	

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.

3.1 ExchangeServicePortType Server Details

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

3.1.1 Abstract Data Model

The Web Service Configuration Protocol is a stateless protocol.

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 name	Description
GetServiceConfiguration	Gets information about the organization policy configuration for a mailbox.

3.1.4.1 GetServiceConfiguration Operation

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

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

3.1.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.1.1.1 GetServiceConfigurationSoapIn Message

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

Part name	Element/type	Description
request	m:GetServiceConfiguration	Specifies the request.

Part name	Element/type	Description
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies the account to impersonate.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies the schema version for the GetServiceConfiguration operation request. The RequestServerVersion element is defined in [MS-OXWSCDATA] section 2.2.5.9.
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.5.6)	Specifies the culture to use for accessing the mailbox. The cultures are defined by [RFC3066] .

3.1.4.1.1.2 GetServiceConfigurationSoapOut Message

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

Part name	Element/type	Description
GetServiceConfigurationResult	m:GetServiceConfigurationResponse	Specifies the response.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] 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 this operation.

Element name	Description
GetServiceConfiguration	Specifies the base element for a GetServiceConfiguration operation request.
GetServiceConfigurationResponse	Specifies the response message for a GetServiceConfiguration operation.
PolicyNudgeRulesConfiguration	Specifies a set of policy nudge rules and rule classification definitions.
rule	Specifies the root of the rule pack document.
RulePackage	Specifies the root of the rule pack document.

3.1.4.1.2.1 m:GetServiceConfiguration

The **GetServiceConfiguration** element specifies the base element for a **GetServiceConfiguration** operation request.

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

3.1.4.1.2.2 m:GetServiceConfigurationResponse

The **GetServiceConfigurationResponse** element specifies the response message for a **GetServiceConfiguration** operation.

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

3.1.4.1.2.3 PolicyNudgeRulesConfiguration

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

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

3.1.4.1.2.4 rule

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

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

3.1.4.1.2.5 mce:RulePackage

The **RulePackage** element specifies the root of the rule pack document. [<3>](#)

```
<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 this operation.

Complex Type	Description
actionsType	Specifies the actions that a policy nudge can have.
actionTypeType	Specifies an optional URL to a compliance note, a policy tip message, and whether the classification rule can be overridden.
AffinityType	Specifies an affinity-based classification type
AnyType	Specifies a classification rule where if any of the rule conditions are met, then the rule condition is processed as a match
ApplyType	Specifies whether the client has to update its email policy rule set
ArrayOfProtectionRulesType	Specifies an array of protection rules.

Complex Type	Description
ArrayOfServiceConfigurationResponseMessageType	Specifies an array of service configuration response messages.
ArrayOfServiceConfigurationType	Specifies the requested service configurations for a GetServiceConfigurationSoapIn message.
ClassificationDefinitionsType	Specifies the definitions used to classify messages. This type extends the ApplyType complex type.
ClassificationDefinitionType	Specifies a single message classification definition. This type extends the RulePackageContainerType complex type
classificationType	Specifies a classification identifier
ConfigurationRequestDetailsType	Contains the details of the policy nudges.
DescriptionType	Specifies the description of a localized resource string.
DetailsType	Specifies the localized description of a rule pack
EncryptionType	Specifies the encryption key and initialization vector.
EntityType	Specifies an entity classification type.
EvidenceType	Specifies the classification rules for an affinity-based classification.
GetServiceConfigurationResponseMessageType	Contains the response message for a GetServiceConfiguration operation.
GetServiceConfigurationType	Specifies the requested service configurations and identifies the sender or recipient actor who is making the request.
GroupType	Specifies the terms in a keyword-based rule.
IdMatchType	Specifies an entity-based primary match rule.
KeywordType	Specifies the terms and identifier of a keyword-based rule.
localeType	Specifies the unique identifier of a keyword-based text processor.
LocalizedDetailsType	Specifies the localized information about a rule pack
LocalizedStringsType	Specifies localized information about classification rules for both entity-based and affinity-based rules.
MatchType	Specifies a classification rule match.

Complex Type	Description
MailTipsServiceConfiguration	Contains service configuration information for the mail tips service.
orType	Specifies a logical OR for rule predicates. This type extends the predicateElementMultipleChildType complex type.
PatternType	Specifies the pattern for an entity classification
PolicyNudgeRulesServiceConfiguration	Contains the policy tip configuration. data.<4>
PolicyNudgeRulesConfigurationType	Specifies the set of policy nudge rules and classification definitions that are sent to a client.
PolicyNudgeRulesType	Specifies a collection of policy nudge rules. This complex type extends the ApplyType complex type.
PolicyNudgeRuleType	Specifies a single policy nudge rule
predicateElementConstantType	Specifies the type of all constant rule predicates. All elements of this type MUST be empty.
predicateElementMultipleChildType	Specifies multiple predicates and logical operators for a classification definition.
predicateElementSingleChildType	Specifies a single predicate or logical operator for a classification definition.
ProtectionRuleActionType	Specifies the action that the client can take if the condition part of the associated rule matches.
ProtectionRuleAndType	Specifies that there MUST be more than one protection rule condition.
ProtectionRuleArgumentType	Specifies an attribute that is used to specify an argument to an action.
ProtectionRuleConditionType	Specifies the condition part of a protection rule.
ProtectionRuleRecipientIsType	Specifies a condition that matches if any recipients of the email message match any specified recipients in the child Value elements.
ProtectionRuleSenderDepartmentsType	Specifies a condition that matches if the department of the sender of the email message matches any of the specified departments in the child Value elements.
ProtectionRulesServiceConfiguration	Specifies the configuration of the protection rules service.

Complex Type	Description
ProtectionRuleType	Specifies a single protection rule.
PublisherType	Specifies the unique identifier of a rule pack publisher
recipientType	Specifies a recipient in a classification definition. No more than one of the attributes in this type can be present.
RegexType	Specifies a regular expression text processor
ResourceNameType	Specifies a localized name for a classification rule
ResourceType	Specifies the localized names and descriptions of a classification rule.
RulePackageContainerType	Contains a single rule package.
RulePackageType	Specifies the rule pack identifier and the set of classification definitions rules.
RulePackType	Specifies the version, identifier, and publisher of a rule pack.
ruleType	Specifies a policy nudge rule.
RulesType	Specifies the rules collection in a rules package.
senderType	Specifies a sender in a classification definition.
ServiceConfiguration	Specifies the base type for the service configuration types.
ServiceConfigurationResponseMessageType	Specifies service configuration settings.
SmtDomain	Specifies a single domain.
SmtDomainList	Specifies a list of internal domains in a user's organization.
TermType	Specifies a term and whether the term is case-sensitive.
UnifiedMessageServiceConfiguration	Specifies the configuration for the Unified Messaging service.
VersionType	Specifies the rule pack version.
versionType	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 policy nudge 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
block	actionTypeType	Specifies that if a rule condition is met, the server MUST block sending the message unless it is overridden by user input.
notify	actionTypeType	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 an optional URL to a compliance note, a policy tip message, and 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:complexType>
    </xs:element>

    <xs:element name="falsePositive">
      <xs:complexType>
        <xs:attribute name="allow" type="yesnoType" use="required" />
      </xs:complexType>
    </xs:element>
  </xs:sequence>

```

```

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

```

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

Element	Type	Description
message		Contains the locale child element.
locale	localeType (section 3.1.4.1.3.23)	Specifies the local natural language identifier, an optional URL to a compliance note, Policy Tip messages, and an override text message.
override		Contains the justification child element and the allow attribute.
justification		Contains the type attribute.
falsePositive		Contains the allow attribute.

The following table lists the attributes defined in the **actionTypeType** complex type.

Attribute	Type	Description
type		Specifies whether an override justification is required. This attribute MUST be present.
allow	yesnoType (section 3.1.4.1.4.16)	Specifies whether a rule can be overridden as specified in the override element. This attribute MUST be present. The client MUST ignore this value if the notify element, as specified in actionsType (section 3.1.4.1.3.1), is present. Specifies whether a false positive reporting is allowed as specified in the falsePositive element. 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
Evidence	EvidenceType	Specifies the rules that are matched for an affinity-based classification.

The following table lists the attributes defined in the **AffinityType** complex type.

Attribute	Type	Description
id	GuidType	Specifies the rule identifier. This attribute MUST be present.
evidencesProximity	ProximityType	Specifies the proximity value used by the classification engine. This attribute MUST be present.
thresholdConfidenceLevel	ProbabilityType	Specifies the confidence level threshold used by the classification engine to trigger an action. This attribute MUST be present.
workload	WorkloadType	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
Match	MatchType	Specifies a single classification rule to match. This element can occur zero or more times.
Any	AnyType	Specifies two or more classification rules to match. This element can occur zero or more times.

The following table lists the attributes defined in the **AnyType** complex type.

Attribute	Type	Description
minMatches	nonNegativeInteger [XMLSCHEMA2]	Specifies the minimum number of rule matches required to indicate that a rule condition has been met. The default value is 1.
maxMatches	nonNegativeInteger [XMLSCHEMA2]	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 attributes defined in the **ApplyType** complex type.

Attribute	Type	Description
apply	simpleType [XMLSCHEMA2]	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 PolicyNudgeRules element or the ClassificationDefinitions element is empty, the client MUST remove all rules. The possible values for the apply 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 name	Type	Description
Rule	t:ProtectionRuleType	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:ArrayOfServiceConfigurationResponseType Complex Type

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

```
<xs:complexType name="ArrayOfServiceConfigurationResponseType">
  <xs:sequence>
    <xs:element name="ServiceConfigurationResponseType"
      type="m:ServiceConfigurationResponseType"
      maxOccurs="unbounded"
      minOccurs="0"
    />
  </xs:sequence>
</xs:complexType>
```

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

Element name	Type	Description
ServiceConfigurationResponseType	m:ServiceConfigurationResponseType (section 3.1.4.1.3.57)	Contains a service configuration response message. This element MUST 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** 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 elements of the **ArrayOfServiceConfigurationType** complex type.

Element name	Type	Description
ConfigurationName	t:ServiceConfigurationType	Specifies the service configuration that is returned in the response. This simple 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. [<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
ClassificationDefinition	ClassificationDefinitionType	Specifies a single rule package. This element can occur zero or more times. If this element is not present and the apply attribute 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. [<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
id	xs:string [XMLSCHEMA2]	Specifies the classification definition identifier. This attribute MUST be present.
version	xs:long [XMLSCHEMA2]	Specifies the classification definition version. This attribute MUST be present.
	xs:anyAttribute [XMLSCHEMA2]	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
rulePackId	xs:string (XMLSCHEMA2)	Specifies the rule pack identifier. This attribute MUST be present.
id	xs:string	Specifies the classification identifier. This attribute MUST be present.
minCount	xs:integer (XMLSCHEMA2)	Specifies the minimum count. This attribute is optional.
maxCount	xs:integer	Specifies the maximum count. This attribute is optional.
minConfidence	xs:integer	Specifies the minimum confidence. This attribute is optional.
maxConfidence	xs:integer	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>
```

The **ConfigurationRequestDetailsType** complex type contains an XML schema **any** element definition 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** and **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 **classificationType** complex type.

Attribute	Type	Description
default	xs:boolean [XMLSCHEMA2]	Specifies the rule pack identifier. This attribute has a default value of "false".
langcode	LangType	Specifies the language identifier, as specified in [RFC4646] . This attribute MUST 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>
```


</xs:complexType>.

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

Element	Type	Description
LocalizedDetails	LocalizedDetailsType	Specifies the localized rule pack information.

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

Attribute	Type	Description
defaultLangCode	LangType	Specifies the RFC4646 language identifier 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
Key	normalizedString [XMLSCHEMA2]	Specifies the encryption key.
IV	normalizedString	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 elements of the **EntityType** complex type.

Element	Type	Description
Pattern	PatternType	Specifies the classification rules that are matched for an entity-based classification.

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

Attribute	Type	Description
id	GuidType	Specifies the rule identifier. This attribute MUST be present.
patternsProximity	ProximityType	Specifies the proximity value between the primary match, as represented by the IdMatch , as specified in section 3.1.4.1.3.29 , and corroborative evidence matches, as specified by the classification engine. This attribute MUST be present.
recommendedConfidence	ProbabilityType	Specifies the confidence level threshold used by the classification engine to trigger an action. This attribute MUST be present.
workload	WorkloadType	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
Match	MatchType	Specifies a single classification rule to match. This element can occur zero or more times.
Any	AnyType	Specifies two or more classification rules to match. This element can occur zero or more times.

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

Attribute	Type	Description
confidenceLevel	ProbabilityType	Specifies the probability of a match. This attribute MUST be present.

3.1.4.1.3.18 m:GetServiceConfigurationResponseMessageType Complex Type

The **GetServiceConfigurationResponseMessageType** type contains the response message for a **GetServiceConfiguration** operation. This complex 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 name	Type	Description
ResponseMessages	m:ArrayOfServiceConfigurationResponseMessageType	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 recipient actor who is making the request. The recipient actor can be different from the user account that authenticated with the server. The **GetServiceConfigurationType** complex 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:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

    />
    <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 name	Type	Description
ActingAs	t:EmailAddressType ([MS-OXWSCDATA] 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 ActingAs element MUST be included for requesting sender hints. This element is optional.
RequestedConfiguration	m:ArrayOfServiceConfigurationType (section 3.1.4.1.3.8)	Specifies the requested service configurations. This element MUST be present.
ConfigurationRequestDetails	t:ConfigurationRequestDetailsType	Specifies the request policy nudges details. <19>

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

```

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

Element	Type	Description
Term	TermType	Specifies a term and whether the term is case-sensitive. The term MUST be between 1 and 100 characters in length. There can be one or more Term elements.

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

Attribute	Type	Description
matchStyle	simpleType [XMLSCHEMA2]	Specifies whether the match 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 attributes of the **IdMatchType** complex type.

Attribute	Type	Description
idRef	string [XMLSCHEMA2]	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 elements of the **KeywordType** complex type.

Element	Type	Description
Group	GroupType	Specifies a group of terms in a keyword-based text processor.

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

Attribute	Type	Description
id	token [XMLSCHEMA2]	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
complianceNoteUrl	anyURI [XMLSCHEMA2]	Specifies the URL of a compliance note.
text1	string [XMLSCHEMA2]	This element is not used.
text2	string	Specifies a policy tip message.
overrideText	string	This element is not used.
text3	string	This element is not used.

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

Attribute	Type	Description
name	language [XMLSCHEMA2]	Specifies the language identifier for the localeType 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:sequence>
</xs:complexType>
```

```

    <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
PublisherName	NameType	Specifies the name of the rules pack publisher.
Name	RulePackNameType	Specifies the name of a rule pack.
Description	OptionalNameType	Specifies the rule pack description.

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

Attribute	Type	Description
langcode	LangType	Specifies the language identifier for the LocalizedDetailsType 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
Resource	ResourceType	Specifies localized information about entity-based and affinity-based classification rules. Only one Resource element per unique entity or affinity MUST exist, and the language code used in the Name and Description elements MUST be unique per Resource 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
idRef	string [XMLSCHEMA2]	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 **ServiceConfigurationType** simple type.

```

<xs:complexType name="MailTipsServiceConfiguration">
  <xs:complexContent>
    <xs:extension base="t:ServiceConfiguration">
      <xs:sequence>
        <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>

```

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

Element name	Type	Description
MailTipsEnabled	xs:boolean [XMLSCHEMA2]	Specifies whether the mail tips service is available.
MaxRecipientsPerGetMailTipsRequest	xs:int [XMLSCHEMA2]	Specifies the maximum number of recipients that can be passed to the GetMailTips operation ([MS-OXWMT] section 3.1.4.1). This element MUST be included if the MailTipsServiceConfiguration complex type is used and MUST be a non-negative integer.
MaxMessageSize	xs:int	Specifies the maximum message size

Element name	Type	Description
		that the user identified by the ActingAs element can send. This element MUST be included if the MailTipsServiceConfiguration complex type is used and MUST be a non-negative integer.
LargeAudienceThreshold	xs:int	Specifies the large audience threshold for clients. This element MUST be included if the MailTipsServiceConfiguration complex type is used and MUST be a non-negative integer.
ShowExternalRecipientCount	xs:boolean	Specifies whether GetMailTips operation clients have to show mail tips that indicate the number of external recipients to which a message is addressed. This element MUST be included if the MailTipsServiceConfiguration complex type is used.
InternalDomains	t:SmtptDomainList (section 3.1.4.1.3.59)	Specifies a list of SMTP domains that are internal to an organization. This information is provided so that mail client software can provide external recipient mail tips when offline. This element MUST be included if the MailTipsServiceConfiguration complex type is used.
PolicyTipsEnabled	xs:boolean	Specifies whether policy tips are enabled. <27>
LargeAudienceCap	xs:int	Specifies the maximum number of recipients 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. [<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>
```

```

    </xs:attribute>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

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

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

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
IdMatch	IdMatchType	Specifies an identifier of a text processor that is used as the primary match for this entity-based classification rule. This element MUST be present.
Match	MatchType	Specifies a corroborative evidence match.
Any	AnyType	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 **EntityType** complex type.

Attribute	Type	Description
confidenceLevel	ProbabilityType	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

The **PolicyNudgeRulesServiceConfiguration** complex type contains the policy nudge 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 policy nudge 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 Policy Nudge 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 Policy Nudge 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
PolicyNudgeRules	PolicyNudgeRulesType	Specifies a collection of policy nudge rules. Each policy nudge rule MUST have

Element	Type	Description
		a unique name and identifier.
ClassificationDefinitions	ClassificationDefinitionsType	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 policy nudge rules. This complex type extends the **ApplyType** complex type. [<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
PolicyNudgeRule	PolicyNudgeRuleType	Specifies a single policy nudge rule.

3.1.4.1.3.33 PolicyNudgeRuleType Complex Type

The **PolicyNudgeRuleType** complex type specifies a single policy nudge 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
rule	ruleType	Specifies a rule definition.

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

Attribute	Type	Description
id	xs:string [XMLSCHEMA2]	Specifies a policy nudge rule identifier. This attribute MUST be present.
version	xs:long [XMLSCHEMA2]	Specifies a policy nudge rule version. This attribute MUST be present.
	xs:anyAttribute [XMLSCHEMA2]	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
and	mce:predicateElementMultipleChildType	Specifies a logical AND for one or more predicates.
classification	mce:classificationType	Specifies a classification identifier.
classifications	mce:predicateElementSingleChildType	This element is not used.
false	mce:predicateElementConstantType	Specifies the false constant predicate.
not	mce:predicateElementSingleChildType	Specifies a not predicate.

Element	Type	Description
or	mce:orType	Specifies a logical OR .
recipient	mce:recipientType	Specifies a message recipient that can be used in a predicate
recipients	mce:predicateElementSingleChildType	This element is not used.
sender	mce:senderType	Specifies a message sender that can be used in a predicate.
senders	mce:predicateElementSingleChildType	This element is not used.
true	mce:predicateElementConstantType	Specifies the true 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: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
and	mce:predicateElementMultipleChildType	Specifies a logical AND for one or more predicates.
classification	mce:classificationType	Specifies a classification identifier.
classifications	mce:predicateElementSingleChildType	Specifies a container for many classification identifiers.
false	mce:predicateElementConstantType	Specifies the false constant predicate.
not	mce:predicateElementSingleChildType	Specifies a not predicate.
or	mce:orType	Specifies a logical OR .
recipient	mce:recipientType	Specifies a message recipient that can

Element	Type	Description
		be used in a predicate.
recipients	mce:predicateElementSingleChildType	Specifies a container for many message recipients.
sender	mce:senderType	Specifies a message sender that can be used in a predicate.
senders	mce:predicateElementSingleChildType	Specifies a container for many message senders.
true	mce:predicateElementConstantType	Specifies the true 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 matches.

```
<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>
```

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

Element name	Type	Description
Argument	t:ProtectionRuleArgumentType	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 RightsProtectMessage action MUST contain a single argument.

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

Attribute name	Type	Description
Name	t:ProtectionRuleActionKindType (section 3.1.4.1.4.6)	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 name	Type	Description
AllInternal	t:ProtectionRuleAllInternalType (section 3.1.4.1.4.7)	Evaluates to true if all recipients of an email message are internal to the sender's organization.
And	t:ProtectionRuleAndType	Specifies that all child elements MUST match to evaluate to true .
RecipientIs	t:ProtectionRuleRecipientIsType (section 3.1.4.1.3.41)	Evaluates to true if any recipient of the email message matches any of the specified recipients in the child Value elements.
SenderDepartments	t:ProtectionRuleSenderDepartmentsType (section 3.1.4.1.3.42)	Evaluates to true if the department of the sender matches any specified department in the child Value elements.
True	t:ProtectionRuleTrueType (section 3.1.4.1.4.8)	Specifies a condition that always matches.

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 name	Type	Description
Value	xs:string [XMLSCHEMA2]	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:ProtectionRuleAllInternalType"
    />
  </xs:choice>
```

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

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

Element name	Type	Description
AllInternal	t:ProtectionRuleAllInternalType (section 3.1.4.1.4.7)	The AllInternal element evaluates to true if all recipients of an email message are internal to the sender's organization. If this element exists, the And , RecipientsIs , SenderDepartments , and True elements MUST NOT be a direct child node of elements of type ProtectionRuleConditionType .
And	t:ProtectionRuleAndType (section 3.1.4.1.3.38)	Specifies that all child elements MUST match to evaluate to true . Specifies that there MUST be more than one protection rule child condition. If this element exists, the AllInternal , RecipientsIs , SenderDepartments , and True elements MUST NOT be a direct child node of elements of type ProtectionRuleConditionType .
RecipientIs	t:ProtectionRuleRecipientIsType (section 3.1.4.1.3.41)	Specifies that any recipient of the e-mail message matches any of the specified recipients in the child Value elements. If this element exists, the And , AllInternal , SenderDepartments , and True elements MUST NOT be a direct child node of elements of type ProtectionRuleConditionType .
SenderDepartments	t:ProtectionRuleSenderDepartmentsType (section 3.1.4.1.3.42)	Specifies that the department of the sender matches any of the specified departments in the child Value elements. If this element exists, the And , RecipientsIs , AllInternal , and True elements MUST NOT be a direct child node of elements of type ProtectionRuleConditionType .
True	t:ProtectionRuleAllInternalType (section 3.1.4.1.4.7)	Specifies a condition that always matches. If this element exists, the And , RecipientsIs , SenderDepartments , and

Element name	Type	Description
		AllInternal elements MUST NOT be a direct child node of elements of type ProtectionRuleConditionType .

3.1.4.1.3.41 t:ProtectionRuleRecipientIsType Complex Type

The **ProtectionRuleRecipientIsType** complex type specifies a condition that matches if any recipients of the email message match any specified recipients 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 elements of the **ProtectionRuleRecipientIsType** complex type.

Element name	Type	Description
Value	t:ProtectionRuleValueType (section 3.1.4.1.4.9)	Specifies an argument to the RecipientIs condition. This element MUST occur at least once.

3.1.4.1.3.42 t:ProtectionRuleSenderDepartmentsType Complex Type

The **ProtectionRuleSenderDepartmentsType** type specifies a condition that matches 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 elements of the **ProtectionRuleSenderDepartmentsType** complex type.

Element name	Type	Description
Value	t:ProtectionRuleValueType (section 3.1.4.1.4.9)	Specifies an argument to the SenderDepartments 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 is comprised of a list of rules, internal domains, and a refresh interval. The **ProtectionRulesServiceConfiguration** complex 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 name	Type	Description
Rules	t:ArrayOfProtectionRulesType (section 3.1.4.1.3.6)	Specifies the collection of rules to be evaluated.

Element name	Type	Description
		This element MUST be included if the ProtectionRulesServiceConfiguration complex type is used.
InternalDomains	t:SmtpDomainList (section 3.1.4.1.3.59)	Specifies the list of internal SMTP domains of the organization. This element MUST be included if the ProtectionRulesServiceConfiguration complex type is used.

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

Attribute name	Type	Description
RefreshInterval	xs:int	Specifies how often, in whole hours, the client SHOULD request protection rules from the server. This attribute MUST be included if the ProtectionRulesServiceConfiguration 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 name	Type	Definition
Condition	t:ProtectionRuleConditionType (section 3.1.4.1.3.40)	Specifies the condition that MUST be satisfied for the action part of the rule to be executed. This element MUST be included if the

Element name	Type	Definition
		ProtectionRuleType complex type is used.
Action	t:ProtectionRuleActionType	Specifies what action MUST be executed if the condition part of the rule matches. This element MUST be included if the ProtectionRuleType complex type is used.

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

Attribute name	Type	Definition
Name	xs:string	Specifies the name of the rule. This attribute MUST be included if the ProtectionRuleType complex type is used. This attribute value MUST contain a string of at least one character.
UserOverridable	xs:boolean	Specifies whether the rule is mandatory. If the rule is mandatory, this attribute value MUST be false . This attribute MUST be included if the ProtectionRuleType complex type is used.
Priority	xs:int	Specifies the rule priority. The lower bound MUST be 1. This attribute MUST be included if the ProtectionRuleType complex type is used. This attribute value MUST 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 name	Type	Definition
id	GuidType	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 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
address	string [XMLSCHEMA2]	Specifies a recipient's email address .
domain	string	Specifies a recipient's domain.
scope	string	Specifies a recipient's organizational scope as compared to the target mailbox user. The following are the applicable values for this attribute: 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
id	xs:token [XMLSCHEMA2]	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:extension>
  </xs:simpleContent>
</xs:complexType>

```

```

    <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
default	xs:boolean [XMLSCHEMA2]	Specifies whether this is the default resource name. The default value is "false".
langcode	mce:LangType	Specifies the language code that represents the localized name of a classification rule. The langcode attribute value of all Name elements MUST be unique per Resource element. 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
Name	mce:ResourceNameType (section 3.1.4.1.3.48)	Specifies a localized resource name.
Description	mce:DescriptionType (section 3.1.4.1.3.13)	Specifies a localized resource description. A Resource element, as specified in section 3.1.4.1.3.25 , of type ResourceType MUST have only one Description element with a value default attribute set to the value of true .

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

Attribute	Type	Description
idRef	mce:GuidType (section 3.1.4.1.4.1)	Specifies the classification rule identifier which 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 elements of the **RulePackageContainerType** complex type.

Element	Type	Description
RulePackage	mce:RulePackageType	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>](#)

```

<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
RulePack	mce:RulePackType (section 3.1.4.1.3.52)	Specifies the version, publisher information, and localized information of a rule pack.
Rules	mce:RulesType (section 3.1.4.1.3.54)	Specifies a collection of classification rules, text processors, and localized information of the classification

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

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

Attribute	Type	Description
id	mce:GuidType (section 3.1.4.1.4.1)	Specifies the rule pack identifier.

3.1.4.1.3.53 ruleType Complex Type

The **ruleType** complex type specifies a policy nudge 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="c" 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
version	versionType (section 3.1.4.1.3.63)	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
name	xs:string ([XMLSCHEMA2])	Specifies the rule name. This attribute MUST be present.
id	xs:string ([XMLSCHEMA2])	Specifies the rule identifier.
description	xs:string ([XMLSCHEMA2])	Specifies the rule description.

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
Entity	mce:EntityType	Specifies an entity-based rules classification definition.
Affinity	mce:AffinityType	Specifies an affinity-based rules classification definition.
Regex	mce:RegexType	Specifies a regular expression text processor.

Element	Type	Description
Keyword	mce:KeywordType	Specifies a keyword text processor.
LocalizedStrings	mce:LocalizedStringsType	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 ([XMLSCHEMA2])	Specifies a sender's email address.
domain	xs:string ([XMLSCHEMA2])	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 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>
  <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 name	Type	Description
MailTipsConfiguration	t:MailTipsServiceConfiguration	Contains service configuration information for the mail tips service. This element MUST occur for mail tips service configuration.
UnifiedMessagingConfiguration	t:UnifiedMessageServiceConfiguration	Contains service configuration information for the Unified Messaging service. This element MUST occur for Unified Messaging service configuration.
ProtectionRulesConfiguration	t:ProtectionRulesServiceConfiguration	Contains service configuration information for the protection rules service. This element MUST occur for protection rules service configuration.
PolicyNudgeRulesConfiguration	t:PolicyNudgeRulesServiceConfiguration	Contains policy nudge rules and classification definitions. <49>

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 **SmtplibDomain** complex type.

Attribute name	Type	Definition
Name	xs:string	Specifies the name of a domain. This attribute MUST be set.
IncludeSubdomains	xs:boolean	Specifies whether subdomains of the domain identified by the Name attribute are considered internal.

3.1.4.1.3.59 t:SmtplibDomainList Complex Type

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

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

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

Element name	Type	Definition
Domain	t:SmtplibDomain (section 3.1.4.1.4)	Specifies a single SMTP domain. This element can occur zero or more times.

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>](#)

```
<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
caseSensitive	xs:boolean ([XMLSCHEMA2])	Specifies whether the term comparison is case sensitive.

3.1.4.1.3.61 UnifiedMessageServiceConfiguration Complex Type

The **UnifiedMessageServiceConfiguration** complex type specifies the configuration for the Unified Messaging service. The **UnifiedMessageServiceConfiguration** complex type extends the **ServiceConfiguration** complex type (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 name	Type	Description
UmEnabled	xs:boolean	Specifies whether Unified Messaging is enabled. This element MUST be included if the UnifiedMessageServiceConfiguration complex type is used.
PlayOnPhoneDialString	xs:string	Specifies the telephone number for play-on-phone. This element MUST be included if the UnifiedMessageServiceConfiguration complex type is used.
PlayOnPhoneEnabled	xs:boolean	Specifies whether play-on-phone is enabled. This element MUST be included if the UnifiedMessageServiceConfiguration 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
major	unsignedShort [XMLSCHEMA2]	Specifies the rule pack major version number.
minor	unsignedShort	Specifies the rule pack minor version number.
build	unsignedShort	Specifies the rule pack build number.
revision	unsignedShort	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 this 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:attribute name="minRequiredVersion"
    type="minRequiredVersionType" use="required" />
</xs:complexType>

```

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

Element	Type	Description
condition	predicateElementSingleChildType (section 3.1.4.1.3.36)	Specifies the rule conditions.
actions	actionsType (section 3.1.4.1.3.1)	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
minRequiredVersion	minRequiredVersionType (section 3.1.4.1.4.3)	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 definitions that are specific to this operation.

Simple Type	Description
GuidType	Specifies the regular expression pattern of a GUID .
LangType	Specifies the natural language identifiers as defined by [RFC4646] .
minRequiredVersionType	Specifies the format of the minimum client version that can implement the rule.
NameType	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.
OptionalNameType	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.
ProtectionRuleActionKindType	Specifies the actions that are supported by the protection rules service.
ProtectionRuleAllInternalType	Specifies the AllInternal predicate.
ProtectionRuleTrueType	Specifies the True predicate
ProtectionRuleValueType	Specifies additional arguments to the RecipientIs and SenderDepartments predicates.
ProbabilityType	Specifies the degree of confidence that the server rule processing engines have identified a matching item.
ProximityType	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.
RestrictedTermType	Specifies the terms for keyword-based processing. The minimum length can be one character; the maximum length MUST be 100 characters.
RulePackNameType	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.
ServiceConfigurationType	Specifies the service configurations that are returned in the response.
WorkloadType	Not used.
yesnoType	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}\-[0-9a-fA-F]{4}\-[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 defined by [\[RFC4646\]](#).<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 service.

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

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

Value	Meaning
RightsProtectMessage	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 AllInternal is that the predicate matches if all recipients of the e-mail message are internal to the organization of the sender of that e-mail 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 True is that the condition always matches.

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

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

3.1.4.1.4.9 t:ProtectionRuleValueType Simple Type

The **ProtectionRuleValueType** simple type specifies additional arguments to the RecipientIs and SenderDepartments predicates. 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>
```

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="512"/>
</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: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
MailTips	Represents the mail tips service configuration.
UnifiedMessagingConfiguration	Represents the unified messaging service configuration.

Value	Meaning
ProtectionRules	Represents the protection rules service configuration.
PolicyNudges	Represents the policy nudges service configuration. <61>

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 sender hints for a user.

```
<?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 example shows a successful response from the **GetServiceConfiguration** service.

```
<?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>
      <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:MaxRecipientsPerGet
MailTipsRequest>
        <t:MaxMessageSize
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">10485760</t:MaxMessageSiz
e>
        <t:LargeAudienceThreshold
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">25</t:LargeAudienceThresh
old>
        <t:ShowExternalRecipientCount
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">>false</t:ShowExternalReci
pientCount>
        <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 example shows a **SOAP fault** caused by the failure of request schema validation.

```

<?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 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 in this document.

File name	Description	Section
MS-OXWCONFIG.wsdl	Contains the WSDL for the implementation of this protocol.	6
MS-OXWCONFIG-messages.xsd	Contains the XML schema message definitions that are used in this protocol.	7.2
MS-OXWCONFIG-types.xsd	Contains the XML schema type definitions that are used in this protocol.	7.9

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:wsi="http://ws-
i.org/schemas/conformanceClaim"/>
    </wSDL:documentation>
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
  </wSDL:binding>
</wSDL:definitions>
```

```
<wsdl:operation name="GetServiceConfiguration">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetServiceConfigurat
ion"/>
  <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:	7.2
Types schema	t:	7.9

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 specification or section
RulePackageTypes.xsd	section 7.8

```
<?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 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 specification or section
MS-OXWSCDATA-messages.xsd	[MS-OXWSCDATA] section 7.1
MS-OXWCONFIG-types.xsd	7.9

```

<?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 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:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

```

```

        <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>

```

7.3 Policy Nudge 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 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 PolicyNudgeRuleSchema.xsd schemas have to be placed in the common folder along with the files listed in the table.

File name	Defining specification
PolicyNudgeRuleSchemaTypes.xsd	section 7.4

```

<?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>

```

7.4 Policy Nudge 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:complexType>

```



```

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

```

```

        </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: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>

```

7.5 Policy Nudge 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 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 PolicyNudgeRulesConfigurationSchema.xsd have to be placed in the common folder along with the files listed in the table.

File name	Defining specification
PolicyNudgeRulesConfigurationSchemaTypes.xsd	section 7.6

```

<?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>

```

7.6 Policy Nudge 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 and 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 specification
PolicyNudgeRuleSchemaTypes.xsd	section 7.4
ClassificationRulePackageContainerSchemaType.xsd	section 7.1

```

<?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: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: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>

```

7.7 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 and imports the files 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 specification
RulePackageTypes.xsd	section 7.8

```

<?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 PolicyNudgeRuleSchemaTypes.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: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: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="512"/>
  </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: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:complexType name="MailTipsServiceConfiguration">
    <xs:complexContent>
      <xs:extension base="t:ServiceConfiguration">
        <xs:sequence>
          <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:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>

```

```

        <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:choice>
</xs:complexType>

```

```

        <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="SmtpDomain">

```

```
<xs:attribute name="Name" type="xs:string" use="required"/>
<xs:attribute name="IncludeSubdomains" type="xs:boolean" use="optional"/>
</xs:complexType>
<xs:complexType name="SmtpDomainList">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Domain" type="t:SmtpDomain"/>
  </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.

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

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

[<4> Section 3.1.4.1.3:](#) Exchange 2010 does not use the **PolicyNudgeRulesServiceConfiguration** complex type.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[<19> Section 3.1.4.1.3.19:](#) Exchange 2010 and Outlook 2010 do not use the **ConfigurationRequestDetails** element.

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

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

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

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

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

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

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

[<27> Section 3.1.4.1.3.27:](#) Exchange 2010 and Outlook 2010 do not include the **PolicyTipsEnabled** element.

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

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

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

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

- <32> [Section 3.1.4.1.3.31](#): Exchange 2010 and Outlook 2010 do not include the **PolicyNudgeRulesConfigurationType** complex type.
- <33> [Section 3.1.4.1.3.32](#): Exchange 2010 and Outlook 2010 do not include the **PolicyNudgeRulesType** complex type.
- <34> [Section 3.1.4.1.3.33](#): Exchange 2010 and Outlook 2010 do not include the **PolicyNudgeRuleType** complex type.
- <35> [Section 3.1.4.1.3.34](#): Exchange 2010 and Outlook 2010 do not include the **predicateElementConstantType** complex type.
- <36> [Section 3.1.4.1.3.35](#): Exchange 2010 and Outlook 2010 do not include the **predicateElementMultipleChildType** complex type.
- <37> [Section 3.1.4.1.3.36](#): Exchange 2010 and Outlook 2010 do not include the **predicateElementSingleChildType** complex type.
- <38> [Section 3.1.4.1.3.45](#): Exchange 2010 and Outlook 2010 do not include the **PublisherType** complex type.
- <39> [Section 3.1.4.1.3.46](#): Exchange 2010 and Outlook 2010 do not include the **recipientType** complex type.
- <40> [Section 3.1.4.1.3.47](#): Exchange 2010 and Outlook 2010 do not include the **RegexType** complex type.
- <41> [Section 3.1.4.1.3.48](#): Exchange 2010 and Outlook 2010 do not include the **ResourceNameType** complex type.
- <42> [Section 3.1.4.1.3.49](#): Exchange 2010 and Outlook 2010 do not include the **ResourceType** complex type.
- <43> [Section 3.1.4.1.3.50](#): Exchange 2010 and Outlook 2010 do not include the **RulePackageContainerType** complex type.
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- <45> [Section 3.1.4.1.3.52](#): Exchange 2010 and Outlook 2010 do not include the **RulePackType** complex type.
- <46> [Section 3.1.4.1.3.53](#): Exchange 2010 and Outlook 2010 do not include the **ruleType** complex type.
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- <49> [Section 3.1.4.1.3.57](#): Exchange 2010 does not use the **PolicyNudgeRulesConfiguration** element.
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<51> [Section 3.1.4.1.3.63](#): Exchange 2010 and Outlook 2010 do not include the **versionType** complex type.

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<64> [Section 7.1](#): The Classification Rule Package Container Type Schema is not applicable to Exchange 2010 and Outlook 2010.

<65> [Section 7.3](#): The Policy Nudge Rule Schema is not applicable to Exchange 2010 and Outlook 2010.

<66> [Section 7.4](#): The Policy Nudge Rule Types Schema is not applicable to Exchange 2010 and Outlook 2010.

<67> [Section 7.5](#): The Policy Nudge Rules Configuration Schema is not applicable to Exchange 2010 and Outlook 2010.

<68> [Section 7.6](#): The Policy Nudge Rules Configuration Types Schema is not applicable to Exchange 2010 and Outlook 2010.

<69> [Section 7.7](#): The Rule Package Types Schema is not applicable to Exchange 2010 and Outlook 2010.

<70> [Section 7.8](#): The Policy Nudge Rule Types Schema is not applicable to Exchange 2010 and Outlook 2010.

9 Change Tracking

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

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