Outlook Rules (.RWZ) File Format

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1. Introduction

The Outlook Rules (.rwz) File Format is used to store exported Outlook rules.

A rules file is a series of variable-length records, called Rules which contain variable-length records. Rules are a series of variable-length records called Rule Elements which contain conditions, actions and exceptions.

1.1. Glossary

This document uses the following terms:

ASCII: The American Standard Code for Information Interchange (ASCII) is an 8-bit character-encoding scheme based on the English alphabet. ASCII codes represent text in computers, communications equipment, and other devices that work with text. ASCII refers to a single 8-bit ASCII character or an array of 8-bit ASCII characters with the high bit of each character set to zero.

big-endian: Multiple-byte values that are byte-ordered with the most significant byte stored in the

memory location with the lowest address.

globally unique identifier (GUID): A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value.

Specifically, the use of this term does not imply or require that the algorithms described in [RFC4122] or [C706] must be used for generating the GUID. See also universally unique identifier (UUID).

little-endian: Multiple-byte values that are byte-ordered with the least significant byte stored in the memory location with the lowest address.

timestamp: A variant time is stored as an 8-byte real value (double), representing a date between January 1, 100 and December 31, 9999, inclusive. The value 2.0 represents January 1, 1900; 3.0 represents January 2, 1900, and so on. Adding 1 to the value increments the date by a day. The fractional part of the value represents the time of day. Therefore, 2.5 represents noon on January 1, 1900; 3.25 represents 6:00 A.M. on January 2, 1900, and so on. Negative numbers represent dates prior to December 30, 1899. The variant time resolves to one second. Any milliseconds in the input date are ignored.

UTF-16: A standard for encoding Unicode characters, defined in the Unicode standard, in which the most commonly used characters are defined as double-byte characters. Unless specified otherwise, this term refers to the UTF-16 encoding form specified in [UNICODE5.0.0/2007] section 3.9.

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

1.2. References

1.2.1. Normative References

[MS-DTYP] Microsoft Corporation, "Windows Data Types".

[MS-OXCDATA] Microsoft Corporation, "Data Structures".

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

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

[UNICODE5.0.0] The Unicode Consortium, "Unicode Default Case Conversion Algorithm 5.0.0", March 2006, http://www.unicode.org/Public/5.0.0/ucd/CaseFolding.txt

1.3. Overview

1.3.1. Rules Structure

A rules file stores a list of rules into a single file or memory buffer. A rule consists of a list of conditions, actions and exceptions that are defined in this specification.

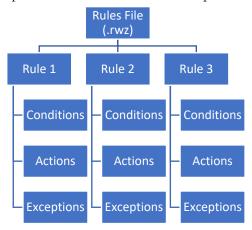


Figure 1: rules files

1.3.2. Byte Ordering

Data in the rules file are stored in little-endian format.

Some computer architectures number bytes in a binary word from left to right, which is referred to as **big-endian**. The byte numbering used for bitfields in this specification is big-endian. Other architectures number the bytes in a binary word from right to left, which is referred to as little-endian.

The byte numbering used for enumerations, objects, and records in this specification is littleendian.

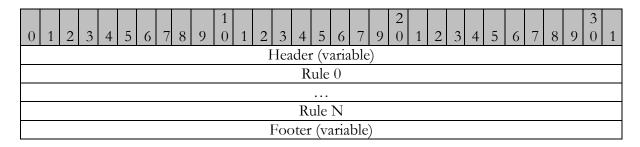
Using the big-endian and little-endian methods, the number 0x12345678 would be stored as shown in the following table.

Byte order	Byte 0	Byte 1	Byte 2	Byte 3
Big-endian	0x12	0x34	0x56	0x78
Little-endian	0x78	0x56	0x34	0x12

2. Structures

2.1. Top-level Structure

The top-level structure is as follows:



Header (50 bytes): A <u>RulesHeader</u> containing information that specifies the characteristics of the rules file, including the number of rules it holds.

Rules (variable): An array of Rule objects of length Header. Number of Rules.

Footer (variable): A <u>RulesFooter</u> containing information that specifies the characteristics of the rules file, including timestamp information.

2.2. Objects

2.2.1. DocumentProperty Object

Specifies a property of a document.

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0	1						
Field (variable)							
Property Tag							
String Match Type							
String Value (variable)							
Number Match Type							
Number Value 1							
Number Value 2							
Bool Match Type							
Unknown1							
Date Match Type							
Date Value							
•••							
Unknown2							

Field (variable): A <u>String</u> that specifies the field of the document.

Note: Outlook limits the length of this field to 32 characters.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

Tag (4 bytes): A PropertyTag structure, as specified in [MS-OXCDATA] section 2.9. This value specifies the document property.

Id Data Type Field

0x8222	PtypString, 0x001F	Author
0x8223	PtypInteger32, 0x0003	Bytes
0x8224	PtypString, 0x001F	Category
0x8225	PtypInteger32, 0x0003	Characters
0x8226	PtypString, 0x001F	Comments
0x8227	PtypString, 0x001F	Company
0x8228	PtypTime, 0x0040	Creation Time
0x8229	PtypString, 0x001F	Document Subject
0x822A	PtypString, 0x001F	Edit Time
0x822B	PtypInteger32, 0x0003	Hidden Slides
0x8032	PtypMultipleString, 0x101F	Keywords
0x822C	PtypString, 0x001F	Last Author
0x822D	PtypTime, 0x0040	Last Saved Time
0x822E	PtypInteger32, 0x0003	Lines
0x822F	PtypString, 0x001F	Manager
0x8230	PtypInteger32, 0x0003	Multimedia Clips
0x8231	PtypInteger32, 0x0003	Notes
0x8232	PtypInteger32, 0x0003	Pages
0x8233	PtypInteger32, 0x003	Paragraphs
0x8234	PtypString, 0x001F	Presentation Format
0x8235	PtypTime, 0x0040	Printed
0x8236	PtypString, 0x001F	Revision Number
0x8237	PtypInteger32, 0x0003	Slides
0x8238	PtypString, 0x001F	Template
0x8239	PtypString, 0x001F	Title
0x823A	PtypInteger32, 0x0003	Words

Data Type	Match Field	Value Field
PtypInteger16, 0x0002	Number Match Type	Number Value 1
PtypInteger32, 0x0003	Number Match Type	Number Value 2
PtypFloating32, 0x0004	Number Match Type	Number Value 1
PtypFloating64, 0x0005	Number Match Type	Number Value 1
PtypCurrency, 0x0006	None	None
PtypFloatingTime, 0x0007	String Match Type	String Value
PtypErrorCode, 0x0007	String Match Type	String Value
PtypBoolean, 0x0007	Bool Match Type	None
PtypFloatingTime, 0x0007	String Match Type	String Value
PtypInteger64, 0x0014	String Match Type	String Value
PtypString8, 0x001E	String Match Type	String Value
PtypString, 0x001F	String Match Type	String Value
PtypTime, 0x0040	Date Match Type	Date Value
Other	String Match Type	String Value

String Match Type (4 bytes): An unsigned integer that defines the match type for string fields.

Value	Meaning
0x00000000	Contains
0x00000001	Is Exactly
0x00000002	Does Not Contain

String Value (variable): A **String** that defines the value used when matching string fields. Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

Number Match Type (4 bytes): An unsigned integer that defines the match type for numerical fields.

Value	Meaning
0x00000000	Equals
0x00000001	Not Equal To
0x00000002	Is at Most
0x00000003	Is at Least
0x00000004	Is More Than
0x00000005	Is Less Than

Number Value 1 (4 bytes): An integer that specifies the value used when matching numerical fields when **Tag.Type** is PtypInteger16, PtypFloat and PtypDouble.

Number Value 2 (4 bytes): An integer that specifies the value used when matching numerical fields when **Tag.Type** is PtypInteger32.

Boolean Match Type (4 bytes): An unsigned integer that specifies the value used when matching Boolean fields.

Value	Meaning
0x00000000	TRUE
0x00000001	FALSE

Unknown1 (4 bytes): An unsigned integer with unknown meaning. Always zero.

Date Match Type (4 bytes): An unsigned integer that specifies the match type for date fields.

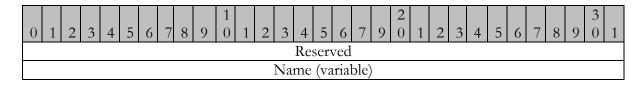
Value	Meaning
0x00000000	After
0x00000001	Before

Date Value (12 bytes): An OleDateTime structure that specifies the value used when matching date fields.

Unknown2 (4 bytes): An unsigned integer with unknown meaning. Always zero.

2.2.2. Form Object

Specifies a form.



Class Name (variable)

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Name (variable): A <u>String</u> that specifies the name of the form. Note: Outlook limits the length of this field to 128 characters.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

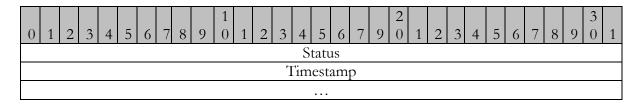
Class Name (variable): A <u>String8</u> that specifies the class name of the form. See https://docs.microsoft.com/en-us/openspecs/exchange server protocols/ms-oxcmsg/6bff5405-8132-4e03-b852-d5241ff173b1

IPM	Value	Description	Notes
IPM.Appointment Appointment IPM.Conflict Conflict Message IPM.Conflict.Resolution.Message Conflict Resolution Form IPM.Contact Contact Contact Can create subclass IPM.DistList Distribution List IPM.Document IPM.InfoPathForm InfoPath Form IPM.Note Message Can create subclass IPM.Note.Mobile.MMS Multimedia Message Can create subclass IPM.Note.Rules.OofTemplate.Microsoft Rule reply template IPM.Note.Rules.ReplyTemplate.Microsoft Rule reply template IPM.Note.SMIME SMIME Encrypted form IPM.Note.SMIME SMIME Encrypted form IPM.Note.Secure IPM.Note.Secure IPM.Note.Secure IPM.Note.Secure IPM.Note.Secure IPM.Note.Secure IPM.OLE.CLASS. (00061055-0000-0000-C000-00000000046} Message class of recurring exceptions See https://docs.microsoft.com/enus/openspecs/exchange_server_protocols/ms-oxcical/6911f0P-a26b-44bd-be7e-0fe38059fae0 IPM.OST.RSS RSS Article Can create subclass IPM.Recall Message Recall Report IPM.Remote Remote IPM.Resond IPM.Recond IPM.Recond IPM.Recond IPM.Schedule.Meeting.Request Meeting Request Can create subclass IPM.Schedule.Meeting.Request Meeting Request Can create subclass IPM.Schedule.Meeting.Request Meeting Request Can create subclass IPM.Schedule.Meeting.Request IPM.Schedule.Meeting.Request IPM.Schedule.Meeting.Request IPM.Schedule.Meeting.Request IPM.Schedule.Meeting.Request IPM.Schedule.Meeting.Request IPM.Recond IPM.Schedule.Meeting.Request IPM.Sched	IPM	Generic	
IPM.Conflict Conflict Message IPM.Conflict.Resolution.Message Conflict Resolution Form IPM.Contact Contact Contact Con create subclass IPM.DistList Distribution List IPM.Document IPM.InfoPathForm InfoPath Form InfoPath Form IPM.Note Message Can create subclass IPM.Note.Mobile.MMS Multimedia Message IPM.Note.Mobile.MMS Multimedia Message IPM.Note.Rules.OofTemplate.Microsoft Emplate Emplate Emplate IPM.Note.Rules.ReplyTemplate.Microsoft Emplate Emplate Emplate Emplate IPM.Note.SmIME SMIME Encrypted form IPM.Note.SmIME.MultipartSigned SMIME digitally signed form IPM.Note.Secure Encrypted Message IPM.Note.Secure IPM.Note.Secure Encrypted Message IPM.OLE.CLASS. (00061055-0000-0000-C000-000000000046) Encrypted Message class of recurring exceptions Emplate Secure IPM.OLE.CLASS. (00061055-0000-0000-C000-0000000000046) Emplate Em	IPM.Activity	Journal Entry	Can create subclass
IPM.Contact Conflict Resolution Form Can create subclass IPM.DistList Distribution List Acan create subclass IPM.Document Document Acan create subclass IPM.InfoPathForm InfoPath Form Acan create subclass IPM.Note Message Can create subclass IPM.Note.Mobile.MMS Multimedia Message Can create subclass IPM.Note.Rules.OofTemplate.Microsoft SMIME Receipt Automatic Replies template IPM.Note.Rules.ReplyTemplate.Microsoft Rule reply template Automatic Replies template IPM.Note.SMIME SMIME Encrypted form SMIME Encrypted form IPM.Note.Secure Encrypted Message Form IPM.Note.Secure.Sign Digitally Signed Message Sec IPM.OLE.CLASS.{00061055-0000-0000-0000-0000000004} Message class of recurring exceptions Sec IPM.Outlook.Recall Recall Message https://docs.microsoft.com/en-us/openspecs/exchange-server protocols/ms-oxical/6911f0f0-a26b-44b-bc7e-0fc38059fac0 IPM.POST Post Can create subclass IPM.POST.RSS RSS Article Can create subclass IPM.Recall Message Recall	IPM.Appointment	Appointment	
IPM.Contact Contact Can create subclass IPM.Document Document IPM.InfoPathForm InfoPath Form IPM.Note Message Can create subclass IPM.Note.Mobile.MMS Multimedia Message IPM.Note.ReCEIPT.SMIME SMIME Receipt IPM.Note.Rules.OofTemplate.Microsoft template IPM.Note.Rules.ReplyTemplate.Microsoft template IPM.Note.SMIME SMIME Encrypted form IPM.Note.SMIME SMIME Encrypted form IPM.Note.SMIME.MultipartSigned SMIME digitally signed form IPM.Note.Secure Encrypted Message IPM.Note.Secure Digitally Signed Message IPM.OLE.CLASS. {00061055-0000-0000-C000-00000000046} See https://docs.microsoft.com/en-us/openspecs/exchange-server_protocols/ms-oxcical/6911f0f9-a26b-44bd-be7e-0fe38059fae0 IPM.Outlook.Recall Recall Message Can create subclass IPM.POST Post Can create subclass IPM.Recall Message Recall Report IPM.Remote Resend Resend IPM.Schedule.Meeting.Cancelled Meeting Cancellation IPM.Schedule.Meeting.Request Meeting Request Can create subclass Can create subclass Can create subclass Can create subclass Can create subclass Can create	IPM.Conflict	Conflict Message	
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11 1v1.0cmcdaic.iviccaiig.rcqac5t.ivcz Dcciiic Mccalliz Rc5D0H5c	IPM.Schedule.Meeting.Request.Neg	Decline Meeting Response	

IPM.Schedule.Meeting.Resp.Pos	Accept Meeting Response	
IPM.Schedule.Meeting.Resp.Tent	Tentative Meeting	
	Response	
IPM.Sharing	Sharing Request	
IPM.StickyNote	Note	
IPM.Task	Task	Can create subclass
IPM.TaskRequest	Task Request	
IPM.TaskRequest.Accept	Task Accept	
IPM.TaskRequest.Decline	Task Decline	
IPM.TaskRequest.Update	Task Update	
REPORT	Report	

2.2.3. OleDateTime Object

Specifies an OLE timestamp.



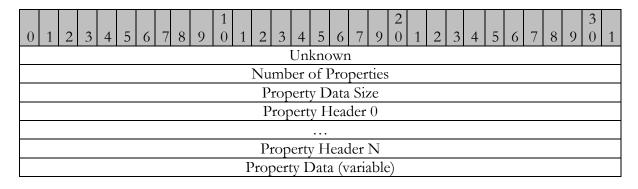
Status (4 bytes): An unsigned integer that specifies the status of the date time.

Value	Meaning
0x00000000	Valid
0x00000002	Null

Timestamp (8 bytes): A double **timestamp** that specifies the date and time that the rules were created.

2.2.4. PropertyValueArray Object

Specifies a list of values.



Unknown (4 bytes): An unsigned integer with unknown meaning. Always zero.

Number of Properties (4 bytes): An unsigned integer that specifies the number of properties contained in this array.

Property Data Size (4 bytes): An unsigned integer that specifies the length in bytes of data following this field.

Property Header (variable): An array of **PropertyValueHeader** values of length **Number of Properties** that specifies the property values contained in the array.

Property Data (variable): An array of bytes of length Number of Properties - Number of Properties * 12

2.2.5. PropertyValueHeader Object

Specifies a list of values.

0	1	2	3	4	5	6	7	8	9	1 0	1	2	3	4	5	6	7	9	2 0	1	2	3	4	5	6	7	8	9	3 0	1
	Data Type Id																													
	Data 1																													
	Data 2																													
	Data 3																													

Data Type (2 bytes): An unsigned integer specified in [MS-OXCDATA] section 2.11.1 that specifies the type of data stored by this property.

Id (2 bytes): An unsigned integer that specifies the id of this property.

Data 1 (4 bytes): An unsigned integer that specifies the first 4 bytes of data of this property.

Data 2 (4 bytes): An unsigned integer that specifies the second 4 bytes of data of this property.

Data 3 (4 bytes): An unsigned integer that specifies the third 4 bytes of data of this property.

2.2.5.1. Fixed Length Properties

Following is a list of fixed length property types. All of these property types are specified in [MS-OXCDATA] section 2.11.1

- **PtypInteger16** /TODO: not seen in wild, can't verify]
- PtypInteger32
- **PtypFloating32** /TODO: not seen in wild, can't verify]
- **PtypFloating64** [TODO: not seen in wild, can't verify]
- **PtypBoolean** /TODO: not seen in wild, can't verify]
- **PtypCurrency** [TODO: not seen in wild, can't verify]
- PtypFloatingTime |TODO: not seen in wild, can't verify|
- **PtypTime** /TODO: not seen in wild, can't verify/
- **PtypInteger64** [TODO: not seen in wild, can't verify]
- PtypErrorCode

All fixed length properties are stored in the **Data2** field of the **PropertyValueHeader**.

2.2.5.2. Variable Length Properties

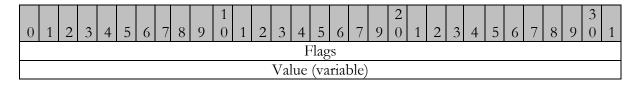
A variable length property, within the context of this document, is defined as one where each instance of the property can have a value of a different size. Such properties are specified along with their lengths or have alternate mechanisms (such as terminating null characters) for

determining their size. Following is an exhaustive list of property types that are either variable length or stored in a stream like variable length property types

- **PtypString:** value is a null terminated UTF-16 little endian encoded string starting at the offset **Data2** field of the **PropertyValueHeader**
- PtypBinary: value is an array of bytes of length Data3 field of the PropertyValueHeader starting at the offset Data2 of the PropertyValueHeader
- **PtypString8:** value is a null terminated ASCII encoded string starting at the offset **Data2** field of the **PropertyValueHeader**
- **PtypGuid** [TODO: not seen in wild, can't verify]
- **PtypObject** /TODO: not seen in wild, can't verify]

2.2.6. SearchEntry Object

Specifies the entry in a list of strings.



Flags (4 bytes): An unsigned integer with unknown meaning. Always zero.

Value (variable): A <u>String</u> that specifies the entry's value.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

2.2.7. String Object

Specifies a UTF-16 little endian encoded string.



Length (1 byte): An unsigned integer that specifies the number of UTF-16 little-endian characters in the **Value** field. If this value is 0xFF then the **Length Extended** field MUST be present and specifies the length of the **Value** field.

Length Extended (2 bytes, optional): An unsigned integer that specifies the number of UTF-16 little-endian characters in the **Value** field. This field MUST be present if **Length** is 0xFF.

Value (variable): A UTF-16 little-endian encoded string of length Length.

2.2.8. String8 Object

Specifies an ASCII encoded string.



Length (1 byte): An unsigned integer that specifies the number of ASCII characters in the **Value** field. If this value is 0xFF then the **Length Extended** field MUST be present and specifies the length of the **Value** field.

Length Extended (2 bytes, optional): An unsigned integer that specifies the number of ASCII characters in the **Value** field. This field MUST be present if **Length** is 0xFF.

Value (variable): An ASCII encoded string of length Length or Length Extended if present.

2.2.9. RulesHeader

The header for the top-level of the .rwz file. This structure contains information such as the number of rules contained in the file.

0	1	2	3	4	5	6	7	8	9	1	1	2	3	4	5	6	7	9	2 0	1	2	3	4	5	6	7	8	9	3 0	1
	Signature (optional																													
	Flags (optional)																													
												Un	kn	OW1	n1 ((op	tior	nal)												
	Unknown2 (optional)																													
	Unknown3 (optional)																													
												Un	kn	OW1	n4 ((op	tior	nal)												
												Un	kn	OW1	n5 ((op	tior	nal)												
												Un	kn	OW1	16 ((op	tior	nal)												
												Un	kn	OW1	n7 ((op	tior	nal)												
	Unknown8 (optional)																													
												Un	kn	OW1	19 ((op	tior	nal)												
				<u> </u>	N	um	ber	of	Ru	les									•						•					

Signature (4 bytes, optional): An unsigned integer that specifies the signature/version of the rule file. The format is "major * 100000 + minor/build". This field MUST NOT be present if the first four bytes of the file are 0x000000000. This field MUST NOT be present in Outlook 97 and earlier versions.

Outlook Version	Decimal	Hex
Outlook 2019 (16.0)	1310720	0x00140000
Outlook 2007 (12.0)	1200000	0x00124F80
Outlook 2003 (11.0)	1100000	0x0010C8E0
Outlook 2002 (10.0)	1000000	0x000F4240
Outlook 2000 (9.0)	980413	0x00EF5BD
Outlook 98	970812	0x00ED03C

Flags (4 bytes, optional): An unsigned integer with unknown meaning. This field MUST NOT be present in Outlook 2000 and earlier versions.

Outlook Version	Decimal	Hex
Outlook 2019 (16.0)	101974016	0x06140000
Outlook 2007 (12.0)	101974016	0x06140000 or 0x05124F80
Outlook 2003 (11.0)	68419584	0x04140000
Outlook 2002 (10.0)	51642368	0x03140000 or 0x06140000 or
		0x03124F80 or 0x05124F80

Unknown1 (4 bytes, optional): An unsigned integer with unknown meaning. Always zero. This field MUST NOT be present in Outlook 97 and earlier versions.

Unknown2 (4 bytes, optional): An unsigned integer with unknown meaning. Always zero. This field MUST NOT be present in Outlook 97 and earlier versions.

Unknown3 (4 bytes, optional): An unsigned integer with unknown meaning. Always zero. This field MUST NOT be present in Outlook 97 and earlier versions.

Unknown4 (4 bytes, optional): An unsigned integer with unknown meaning. This field MUST NOT be present in Outlook 97 and earlier versions.

Unknown5 (4 bytes, optional): An unsigned integer with unknown meaning. This field MUST NOT be present in Outlook 97 and earlier versions.

Unknown6 (4 bytes, optional): An unsigned integer with unknown meaning. This field MUST NOT be present in Outlook 97 and earlier versions.

Unknown7 (4 bytes, optional): An unsigned integer with unknown meaning. This field MUST NOT be present in Outlook 97 and earlier versions.

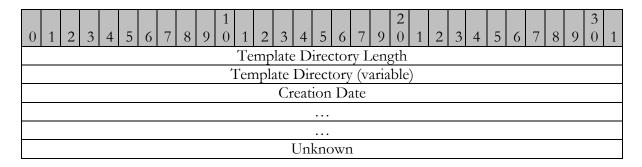
Unknown8 (4 bytes, optional): An unsigned integer with unknown meaning. Always one. This field MUST NOT be present in Outlook 97 and earlier versions.

Unknown9 (4 bytes, optional): An unsigned integer with unknown meaning. This field MUST NOT be present in Outlook 2000 and earlier versions.

Number of Rules (2 bytes): An unsigned integer that specifies the number of rules contained in the file.

2.2.10. RulesFooter

The footer information for a list of rules.



Template Directory Length (4 byte): An unsigned integer that specifies the number of characters in the Template Directory field.

Note: this MUST be less than or equal to 260 (MAX_PATH).

Template Directory (variable): A UTF-16 little-endian encoded string that specifies the most recently used directory location from which a template file was used. This string is not null-terminated.

Note: this field is ASCII in Outlook 2000 and earlier versions.

Unknown (4 bytes): An unsigned integer with unknown meaning. Always zero.

2.2.11. RuleHeader

The header for an individual rule contained within the .rwz file. This structure contains information such as the rule's name, enabled status and the number of rule elements it holds.

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	5 6 7 9 0 1 2 3 4 5 6 7 8 9 0 1						
Signature (optional)							
Name (variable)							
Enabled							
Unknown1							
Unknown2							
Unknown3	(optional)						
Unknown4	(optional)						
Data Size	(optional)						
Rule Elements (optional)	Padding (optional)						
Separator (optional)	Separator (optional) Class Name Length (optional)						
Class Name (va.	riable, optional)						

Signature (4 bytes, optional): An unsigned integer that specifies the signature/version of the rule. This field MUST NOT be present in Outlook 2000 and earlier versions.

Name (variable): A <u>String</u> that specifies the rule's name. Note: Outlook limits the length of this field to 255 characters.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

Enabled (4 bytes): An unsigned integer that specifies if the rule is enabled.

Value	Meaning
FALSE	The rule is disabled.
0x00000000	
TRUE	The rule is enabled.
0x00000001	

Unknown1 (4 bytes): An unsigned integer with unknown meaning.

Unknown2 (4 bytes): An unsigned integer with unknown meaning.

Unknown3 (4 bytes, optional): An unsigned integer with unknown meaning. This field MUST NOT be present in Outlook 2000 and earlier versions.

Unknown4 (4 bytes, optional): An unsigned integer with unknown meaning. This field MUST NOT be present in Outlook 2000 and earlier versions.

Data Size (4 bytes, optional): An unsigned integer that specifies the length of the remaining data. This field MUST NOT be present if the file has no signature and MUST NOT be present in Outlook 97 and earlier versions.

Number of Rule Elements (2 bytes): An unsigned integer that specifies the number of rule elements (conditions, actions, exceptions etc.) that the rule contains.

Separator (2 bytes, optional): An unsigned integer that specifies a separator. If this rule is the first rule, then this field MUST be 0xFFFF and the **Padding**, Class Name Length and Class Name MUST be present. If this rule is not the first rule, then this field MUST be 0x8001. This field MUST NOT be present if this rule is the last rule.

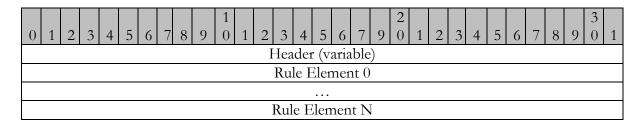
Padding (2 bytes, optional): An unsigned integer with unknown meaning. Always zero.

Class Name Length (2 bytes, optional): An unsigned integer that specifies the length of the class name in bytes.

Class Name (variable, optional): An ASCII encoded string that specifies the rule's class name. This field MUST be "CRuleElement".

2.3. Rules

An individual rule contained within the .rwz file.



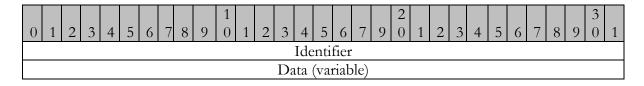
Header (variable): A <u>RuleHeader</u> contains information that specifies the characteristics of the rules file, including its name, enabled status and the number of rule elements it holds.

Rule Elements (variable): An array of <u>RuleElement</u> values of length <u>Header.Number of Rule Elements</u>. Elements specify the type of messages to which the rule applies as well as the rule's conditions, actions and exclusions.

The observed order of elements is the apply rule element (0x00000190), 0x000000064, conditions, triggers, exceptions.

2.3.1. RuleElement

Rule elements specify a rule's conditions, actions and exceptions, e.g. "sent only to me", "mark as read", "except if sent only to me".



Identifier (4 bytes): An unsigned integer that specifies the type of the rule element's data.

Data (variable): The rule element's data that depends on the value of Identifier.

Mandatory Rule Elements

Value	Description	Data
0x00000064	Unknown meaning	<u>UnknownRuleElement0x64Data</u>
0x00000190	"type of messages to which this rule applies"	<u>ApplyRuleElementData</u>

Conditions

Value	Description	Data
0x000000C8	"where my name is in the To box"	<u>SimpleRuleElementData</u>
0x000000C9	"sent only to me"	<u>SimpleRuleElementData</u>
0x000000CA	"where my name is not in the To box"	<u>SimpleRuleElementData</u>
0x000000CB	"from <people group="" or="" public="">"</people>	PeopleOrPublicGroupListRuleEleme
		<u>ntData</u>
0x000000CC	"sent to <people group="" or="" public="">"</people>	PeopleOrPublicGroupListRuleEleme
		<u>ntData</u>
0x000000CD	"with <specific words=""> in the</specific>	<u>StringsListRuleElementData</u>
	subject"	
0x000000CE	"with <specific words=""> in the body"</specific>	<u>StringsListRuleElementData</u>
0x000000CF	"with <specific words=""> in the subject</specific>	<u>StringsListRuleElementData</u>
	or body"	
0x000000D0	"flagged for <action>"</action>	<u>FlaggedForActionRuleElementData</u>
0x000000D2	"marked as <importance>"</importance>	<u>ImportanceRuleElementData</u>
0x000000D3	"marked as <sensitivity>"</sensitivity>	<u>SensitivityRuleElementData</u>
0x000000D7	"assigned to <category> category"</category>	<u>CategoriesListRuleElementData</u>
0x000000DC	"which is an automatic reply"	<u>SimpleRuleElementData</u>
0x000000DE	"which has attachment"	<u>SimpleRuleElementData</u>
0x000000DF	"with <selected properties=""> of</selected>	<u>WithSelectedPropertiesOfDocument</u>
	documents or forms"	<u>OrFormsRuleElementData</u>
0x000000E0	"with a size <in a="" range="" specific="">"</in>	<u>SizeInSpecificRangeRuleElementDat</u>
		<u>a</u>
0x000000E1	"received <in a="" date="" span="" specific="">"</in>	<u>ReceivedInSpecificDateSpanRuleEle</u>
		<u>mentData</u>
0x000000E2	"where my name is in the Cc box"	<u>SimpleRuleElementData</u>
0x000000E3	"where my name is in the To or Cc	<u>SimpleRuleElementData</u>
	box"	
0x000000E4	"uses the <form name=""> form"</form>	FormTypeRuleElementData
0x000000E5	"with <specific words=""> in the</specific>	<u>StringsListRuleElementData</u>
	recipient's address"	
0x000000E6	"with <specific words=""> in the</specific>	<u>StringsListRuleElementData</u>
	sender's address"	
0x000000E8	"with <specific words=""> in the</specific>	<u>StringsListRuleElementData</u>
	message header"	
0x000000EB	"suspected to be junk-email or from	<u>SendersListRuleElementData</u>
	<junk senders="">"</junk>	
0x000000EC	"containing adult content or from	<u>SendersListRuleElementData</u>
	<adult content="" senders="">"</adult>	

0x000000ED	"with a relevance <in a="" specific<="" th=""><th><u>SizeInSpecificRangeRuleElementDat</u></th></in>	<u>SizeInSpecificRangeRuleElementDat</u>
	range>"	<u>a</u>
	/// Note: this is hidden in Outlook	
	by default. Requires the registry key	
	"Computer\HKEY_CURRENT_US	
	ER\SOFTWARE\Microsoft\Office	
	\8.0\Outlook\Relevance" to exist	
0x000000EE	"through the <specified> account"</specified>	<u>ThroughAccountRuleElementData</u>
0x000000EF	"on this computer only"	<u>OnThisComputerOnlyRuleElement</u>
		<u>Data</u>
0x000000F0	"sender is in <specified> Address</specified>	<u>SenderInSpecifiedAddressBookRule</u>
	Book"	<u>ElementData</u>
0x000000F1	"which is a meeting invitation or	<u>SimpleRuleElementData</u>
	update"	
0x000000F4	"of the <specific> form type"</specific>	FormTypeRuleElementData
	Note: this requires Microsoft	
	InfoPath to be installed to be creatable	
0x000000F5	"from RSS feeds with <specified< td=""><td><u>StringsListRuleElementData</u></td></specified<>	<u>StringsListRuleElementData</u>
	text> in the title"	
0x000000F6	"assigned to any category"	<u>SimpleRuleElementData</u>
0x000000F7	"from any RSS feed"	<u>SimpleRuleElementData</u>

Actions

Value	Description	Data
0x0000012C	"move it to the <specified> folder"</specified>	MoveToFolderRuleElementData
0x0000012D	"delete it"	<u>SimpleRuleElementData</u>
0x0000012E	"forward it to <people or="" public<="" td=""><td>PeopleOrPublicGroupListRuleElem</td></people>	PeopleOrPublicGroupListRuleElem
	group>"	<u>entData</u>
0x0000012F	"reply using <template>"</template>	<u>PathRuleElementData</u>
0x00000130	"display in the	<u>DisplayMessageInNewItemAlertWi</u>
	New Item Alert window"	<u>ndowRuleElementData</u>
0x00000131	"flag message for <action a="" in="" number<="" td=""><td><u>FlagRuleElementData</u></td></action>	<u>FlagRuleElementData</u>
	of days>"	
0x00000132	"clear the Message flag"	<u>SimpleRuleElementData</u>
0x00000133	"assign it to the <category> category"</category>	<u>CategoriesListRuleElementData</u>
0x00000136	"play <sound>"</sound>	<u>PathRuleElementData</u>
0x00000137	"mark it as <importance>"</importance>	<u>ImportanceRuleElementData</u>
0x00000138	"mark it as <sensitivity>"</sensitivity>	<u>SensitivityRuleElementData</u>
0x00000139	"move a copy to the <specified></specified>	MoveToFolderRuleElementData
	folder"	
0x0000013A	"notify me when it is read"	<u>SimpleRuleElementData</u>
0x0000013B	"notify me when it is delivered"	<u>SimpleRuleElementData</u>
0x0000013C	"Cc the message to <people or="" public<="" td=""><td><u>PeopleOrPublicGroupListRuleElem</u></td></people>	<u>PeopleOrPublicGroupListRuleElem</u>
	group>"	<u>entData</u>
0x0000013E	"defer delivery by 	<u>DeferDeliveryRuleElementData</u>
	minutes"	
0x0000013F	"perform "	<u>PeformCustomActionRuleElement</u>
		<u>Data</u>
0x00000142	"stop processing more rules"	<u>SimpleRuleElementData</u>

0x00000144	"redirect it to <people or="" public<="" th=""><th><u>PeopleOrPublicGroupListRuleElem</u></th></people>	<u>PeopleOrPublicGroupListRuleElem</u>
	group>"	<u>entData</u>
0x00000145	"add <number> to relevance"</number>	<u>AddToRelevanceRuleElementData</u>
	Note: this is hidden in Outlook by	
	default	
0x00000146	"have server reply using <a specific<="" td=""><td><u>AutomaticReplyRuleElementData</u></td>	<u>AutomaticReplyRuleElementData</u>
	message>"	
0x00000147	"forward it to <people or="" public<="" td=""><td><u>PeopleOrPublicGroupListRuleElem</u></td></people>	<u>PeopleOrPublicGroupListRuleElem</u>
	group> as attachment"	<u>entData</u>
0x00000148	"print it"	<u>SimpleRuleElementData</u>
0x00000149	"start <application>"</application>	<u>PathRuleElementData</u>
	Note: this is hidden in Outlook 2016	
0x0000014A	"permanently delete it"	<u>SimpleRuleElementData</u>
0x0000014B	"run <script>"</td><td><u>RunScriptRuleElementData</u></td></tr><tr><td></td><td>Note: this is hidden in Outlook 2016</td><td></td></tr><tr><td>0x0000014C</td><td>"mark as read"</td><td><u>SimpleRuleElementData</u></td></tr><tr><td>0x0000014F</td><td>"display a Desktop alert"</td><td><u>SimpleRuleElementData</u></td></tr><tr><td>0x00000151</td><td>"flag message for <follow up at this</td><td><u>FlagForFollowUpRuleElementData</u></td></tr><tr><td></td><td>time>"</td><td></td></tr><tr><td>0x00000152</td><td>"clear message's categories"</td><td><u>SimpleRuleElementData</u></td></tr><tr><td>0x00000153</td><td>"apply retention policy: <retention</td><td><u>ApplyRetentionPolicyRuleElement</u></td></tr><tr><td></td><td>policy>"</td><td><u>Data</u></td></tr></tbody></table></script>	

Exceptions

Value	Description	Data				
0x000001F4	"except where my name is in the To	<u>SimpleRuleElementData</u>				
	box"					
0x000001F5	"except if sent only to me"	<u>SimpleRuleElementData</u>				
0x000001F6	"except where my name is not in the To	<u>SimpleRuleElementData</u>				
	Box"					
0x000001F7	"except if from <people or="" public<="" td=""><td><u>PeopleOrPublicGroupListRuleElem</u></td></people>	<u>PeopleOrPublicGroupListRuleElem</u>				
	group>"	<u>entData</u>				
0x000001F8	"except if sent to <people or="" public<="" td=""><td><u>PeopleOrPublicGroupListRuleElem</u></td></people>	<u>PeopleOrPublicGroupListRuleElem</u>				
	group>"	<u>entData</u>				
0x000001F9	"except if the subject contains < specific	<u>StringsListRuleElementData</u>				
	words>"					
0x000001FA	"except if the body contains <specific< td=""><td colspan="5"><u>StringsListRuleElementData</u></td></specific<>	<u>StringsListRuleElementData</u>				
	words>"					
0x000001FB	"except if the subject or body contains	<u>StringsListRuleElementData</u>				
	<specific words="">"</specific>					
0x000001FC	"except if it is flagged for <action>"</action>	<u>FlaggedForActionRuleElementData</u>				
0x000001FE	"except if it is marked as <importance>"</importance>	<u>ImportanceRuleElementData</u>				
0x000001FF	"except if it is marked as <sensitivity>"</sensitivity>	<u>SensitivityRuleElementData</u>				
0x00000203	"except if it is assigned to <category></category>	<u>CategoriesListRuleElementData</u>				
	category"					
0x00000208	"except if it is an automatic reply"	<u>SimpleRuleElementData</u>				
0x0000020A	"except if it has an attachment"	<u>SimpleRuleElementData</u>				
0x0000020B	"except with <selected properties=""> of</selected>	WithSelectedPropertiesOfDocumen				
	documents or forms"	tOrFormsRuleElementData				

0x0000020C	"except with a size <in a="" range="" specific=""></in>	<u>SizeInSpecificRangeRuleElementDa</u>
		<u>ta</u>
0x0000020D	"except if received <in a="" date<="" specific="" td=""><td>ReceivedInSpecificDateSpanRuleEl</td></in>	ReceivedInSpecificDateSpanRuleEl
	span>	ementData
0x0000020E	"except where my name is in the Cc box"	<u>SimpleRuleElementData</u>
0x0000020F	"except if my name is in the To or Cc	<u>SimpleRuleElementData</u>
	box"	
0x00000210	"except if it uses the <form name=""></form>	FormTypeRuleElementData
	form"	
0x00000211	"except with <specific words=""> in the</specific>	<u>StringsListRuleElementData</u>
	recipient's address"	
0x00000212	"except with <specific words=""> in the</specific>	<u>StringsListRuleElementData</u>
	sender's address"	
0x00000213	"except if the message header contains	<u>StringsListRuleElementData</u>
	<specific words="">"</specific>	
0x00000214	"except through the <specified></specified>	<u>ThroughAccountRuleElementData</u>
	account"	_
0x00000215	"except if sender is <specified> Address</specified>	<u>SenderInSpecifiedAddressBookRule</u>
	Book"	<u>ElementData</u>
0x00000216	"except if it is a meeting invitation or	<u>SimpleRuleElementData</u>
	update"	
0x00000218	"except if it is of the <specific> form</specific>	FormTypeRuleElementData
	type"	
	Note: this requires Microsoft InfoPath	
	to be installed to be creatable	
0x00000219	"except if it is from RSS Feeds with	<u>StringsListRuleElementData</u>
	<pre><specified text=""> in the title"</specified></pre>	
0x0000021A	"except if it is assigned to any category"	<u>SimpleRuleElementData</u>
0x0000021B	"except from any RSS Feed"	<u>SimpleRuleElementData</u>

Notes

- Outlook requires the rule element 0x00000142 ("stop processing more rules") to be present if the rule element 0x0000014A ("permanently delete it") is selected.
- Outlook requires the rule element 0x000000EF ("on this computer only" condition) to be present for the following rule elements
 - o 0x000000EE ("through the <specified> account" condition) this cannot be unselected)
 - o 0x000000F0 ("sender is in the <specified> Address Book" condition) this cannot be unselected
 - o 0x00000116 ("play < sound>" action) this can be unselected
 - o 0x00000149 ("start <application>" action) this can be unselected
 - 0 0x0000014B ("run <script>" action) this can be unselected
 - o 0x0000014F ("display a Desktop alert" action) this can be unselected
 - o 0x00000214 ("except through the <specified> account" exception) this cannot be unselected)
 - o 0x00000215 ("except if sender is in the <specified> Address Book" exception) this cannot be unselected

2.4. Rule Elements

2.4.1. UnknownRuleElement0x64Data

Contains data for rule elements with identifier 0x00000064 with unknown meaning.

0	1	2	3	4	5	6	7	8	9	1 0	1	2	3	4	5	6	7	9	2 0	1	2	3	4	5	6	7	8	9	3 0	1
	Extended																													
	Reserved																													
	Flags																													

Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Flags (4 bytes): An unsigned integer that specifies message flags. Always one.

2.4.2. SimpleRuleElementData

Contains data for:

- Rule elements with identifier 0x0000000C8 specifying the "where my name is in the To box" condition.
- Rule elements with identifier 0x0000000C9 specifying the "sent only to me" condition.
- Rule elements with identifier 0x000000CA specifying the "where my name is not in the To box" condition.
- Rule elements with identifier 0x000000DE specifying the "which has attachment" condition.
- Rule elements with identifier 0x0000000E2 specifying the "where my name is in the Cc box" condition.
- Rule elements with identifier 0x0000000E3 specifying the "where my name is in the To or Cc box" condition.
- Rule elements with identifier 0x0000000F0 specifying the "which is a meeting invitation or update" condition.
- Rule elements with identifier 0x0000000F5 specifying the "from any RSS feed" condition.
- Rule elements with identifier 0x00000012D specifying the "delete it" action.
- Rule elements with identifier 0x000000132 specifying the "clear the Message flag" action.
- Rule elements with identifier 0x00000013A specifying the "notify me when it is read" action.
- Rule elements with identifier 0x00000013B specifying the "notify me when it is delivered" action.
- Rule elements with identifier 0x000000142 specifying the "stop processing more rules" action.
- Rule elements with identifier 0x00000014A specifying the "permanently delete it" action.
- Rule elements with identifier 0x00000014C specifying the "mark as read" action.
- Rule elements with identifier 0x00000014F specifying the "display a Desktop alert" action.
- Rule elements with identifier 0x000000152 specifying the "clear message's categories" action.
- Rule elements with identifier 0x0000001F4 specifying the "except where my name is in the To box" exception.
- Rule elements with identifier 0x0000001F5 specifying the "except if sent only to me" exception.
- Rule elements with identifier 0x0000001F6 specifying the "except where my name is not in the To Box" exception.

- Rule elements with identifier 0x000000208 specifying the "except if it is an automatic reply" exception.
- Rule elements with identifier 0x00000020A specifying the "except if it has an attachment" exception.
- Rule elements with identifier 0x00000020E specifying the "except where my name is in the Cc box" exception.
- Rule elements with identifier 0x00000020F specifying the "except if my name is in the To or Cc box" exception.
- Rule elements with identifier 0x000000216 specifying the "except if it is a meeting invitation or update" exception.
- Rule elements with identifier 0x00000021A specifying the "except if it is assigned to any category" exception.
- Rule elements with identifier 0x00000020F specifying the "except from any RSS Feed" exception.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000000 (FALSE).

2.4.3. PeopleOrPublicGroupListRuleElementData

Contains data for:

- Rule elements with identifier 0x000000CB specifying the "from <people or public group>" condition.
- Rule elements with identifier 0x000000CC specifying the "sent to <people or public group>" condition.
- Rule elements with identifier 0x0000012E specifying the "forward it to <people or public group> as attachment" action.
- Rule elements with identifier 0x0000013C specifying the "Cc the message to <people or public group>" action.
- Rule elements with identifier 0x00000144 specifying the "redirect it to <people or public group>" action.
- Rule elements with identifier 0x00000147 specifying the "forward it to <people or public group> as attachment" action.
- Rule elements with identifier 0x000001F7 specifying the "except if from <people or public group>" action.
- Rule elements with identifier 0x000001F8 specifying the "except if sent to <people or public group>" action.

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1								
Extended								
Reserved								
Number of Values								
Value 0								
Value N								
Unknown1								

Unknown2

Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Number of Values (4 bytes): An unsigned integer that specifies the length of the Values field

Values (variable): An array of PropertyValueArray values of length Number of Values that specifies the people or public group names to use as a filter.

Unknown1 (4 bytes): An unsigned integer with unknown meaning. Always one.

Unknown2 (4 bytes): An unsigned integer with unknown meaning. Always zero.

2.4.4. StringsListRuleElementData

Contains data for

- Rule elements with identifier 0x000000CD specifying the "with specific words in the subject" condition.
- Rule elements with identifier 0x000000CE specifying the "with specific words in the body" condition.
- Rule elements with identifier 0x000000CF specifying the "with specific words in the subject or body" condition.
- Rule elements with identifier 0x000000E5 specifying the "with specific words in the recipient's address" condition.
- Rule elements with identifier 0x000000E6 specifying the "with specific words in the sender's address" condition.
- Rule elements with identifier 0x000000E8 specifying the "with specific words in the message header" condition.
- Rule elements with identifier 0x000000F5 specifying the "from RSS feeds with <specified text> in the title" condition.
- Rule elements with identifier 0x000001F9 specifying the "except if the subject contains <specific words>" exception.
- Rule elements with identifier 0x000001FA specifying the "except if the body contains <specific words>" exception.
- Rule elements with identifier 0x000001FB specifying the "except if the subject or body contains <specific words>" exception.
- Rule elements with identifier 0x00000211 specifying the "except with <specific words> in the recipient's address" exception.
- Rule elements with identifier 0x00000212 specifying the "except with <specific words> in the sender's address" exception.
- Rule elements with identifier 0x00000213 specifying the "except if the message header contains <specific words>" exception.
- Rule elements with identifier 0x00000219 specifying the "except if it is from RSS Feeds with <specified text> in the title" exception.



Number of Entries
Entry 0
Entry N

Number of Entries (4 bytes): An unsigned integer that specifies the number of words or phrases to search for in the subject.

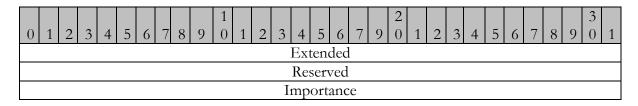
Note: this MUST be 0x00000001 (TRUE) in Outlook 98.

Entries (variable): An array of <u>SeachEntry</u> values of length **Number of Entries** that specifies the words or phrases to search for in the subject.

2.4.5. ImportanceRuleElementData

Contains data for

- Rule elements with identifier 0x000000D2 specifying the "marked as <importance>" condition.
- Rule elements with identifier 0x00000137 specifying the "mark it as <importance>" action.
- Rule elements with identifier 0x000001FE specifying the "except if it is marked as <importance>" exception.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

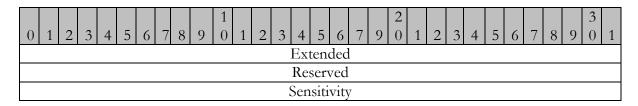
Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Importance (4 bytes): An integer that indicates the importance of the message to condition on defined in [MS-OXCMSG] section 2.2.1.11.

2.4.6. SensitivityRuleElementData

Contains data for

- Rule elements with identifier 0x000000D3 specifying the "marked as <sensitivity>" condition.
- Rule elements with identifier 0x00000138 specifying the "mark it as <sensitivity>" action.
- Rule elements with identifier 0x000001FF specifying the "except if it is marked as <sensitivity>" exception.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

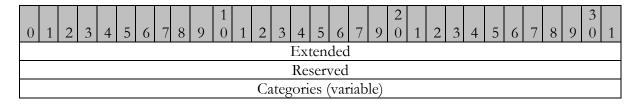
Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Sensitivity (4 bytes): An integer that indicates the sensitivity of the message to condition on defined in [MS-OXCMSG] section 2.2.1.13.

2.4.7. CategoriesListRuleElementData

Contains data for

- Rule elements with identifier 0x000000D7 specifying the "assigned to <category> category" condition.
- Rule elements with identifier 0x00000133 specifying the "assign it to the <category> category" action.
- Rule elements with identifier 0x0000203 specifying the "except if it is assigned to <ategory> category" condition.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

Categories (variable): A <u>String</u> that specifies a list of categories separated by a semicolon (";").

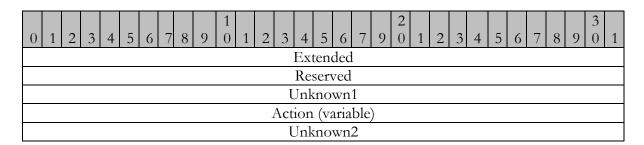
Note: Outlook does not allow the ";" character to be entered.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

2.4.8. FlaggedForActionRuleElementData

Contains data for

- Rule elements with identifier 0x000000D0 specifying the "flagged for <action>" condition.
- Rule elements with identifier 0x000001FC specifying the "except if it is flagged for <action>" condition.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

Unknown1 (4 bytes): An unsigned integer with unknown meaning. Always zero.

Action (variable): A String that specifies the action.

Note: Outlook limits the length of this field to 100 characters.

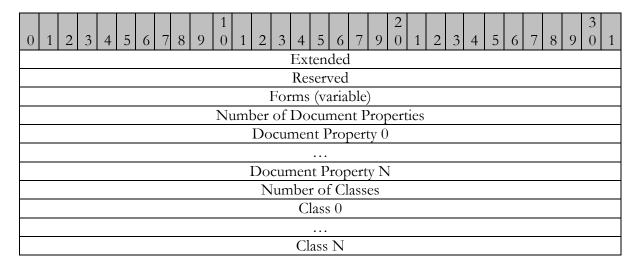
Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

Unknown2 (4 bytes): An unsigned integer with unknown meaning. Always one.

2.4.9. WithSelectedPropertiesOfDocumentOrFormsRuleElementData

Contains data for

- Rule elements with identifier 0x000000DF specifying the "with <selected properties" of documents or properties" condition.
- Rule elements with identifier 0x0000020B specifying the "except with <selected properties> of documents or forms" exception.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Forms (variable): A <u>String</u> that specifies the list of forms separated by a semicolon (";"). Note: this field is a <u>String8</u> (ASCII) Outlook 2000 and earlier versions.

Number of Document Properties (4 bytes): An unsigned integer that specifies the number of document properties in this condition.

Document Properties (variable): An array of **DocumentProperty** values of length **Number of Document Properties** that specifies the forms in this condition.

Number of Classes (4 bytes): An unsigned integer that specifies the number of classes in this condition.

Classes (variable): An array of <u>String</u> values of length Number of Document Properties that specifies the forms in this condition.

2.4.10. SizeInSpecificRangeRuleElementData

Contains data for

- Rule elements with identifier 0x000000E0 specifying the "with a size <in a specific range>" condition.
- Rule elements with identifier 0x0000020C specifying the "except with a size <in a specific range> exception.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

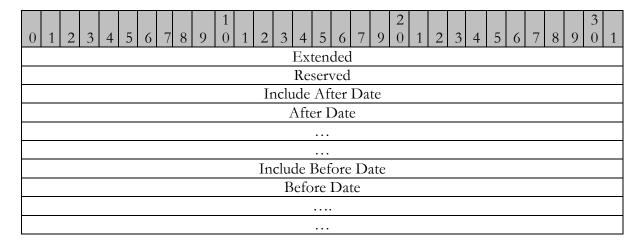
Min Size in Kilobytes (4 bytes): An unsigned integer that specifies the minimum message size in kilobytes.

Max Size in Kilobytes (4 bytes): An unsigned integer that specifies the maximum message size in kilobytes.

2.4.11. ReceivedInSpecificDateSpanRuleElementData

Contains data for

- Rule elements with identifier 0x000000E1 specifying the "received <in a specific date span>" condition.
- Rule elements with identifier 0x0000020D specifying the "except if received <in a specific date span> exception.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Include After Date (4 bytes): A Boolean value that specifies whether to include the after date in the condition. This value MUST be one of the following:

Value	Meaning
FALSE	Do not include the after date in the condition
0x00000000	
TRUE	Include the after date in the condition
0x00000001	

After Date (12 bytes): An OleDateTime structure that specifies the after date of the condition.

Include Before Date (4 bytes): A Boolean value that specifies whether to include the before date in the condition.

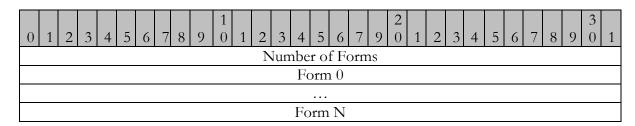
Value	Meaning
FALSE	Do not include the before date in the
0x00000000	condition
TRUE	Include the before date in the condition
0x00000001	

Before Date (12 bytes): An OleDateTime structure that specifies the before date of the condition.

2.4.12. FormTypeRuleElementData

Contains data for

- Rule elements with identifier 0x000000E4 specifying the "uses the <form name> form" condition.
- Rule elements with identifier 0x000000F4 specifying the "of the <specific> form type" condition.
 - O Note: this requires Microsoft InfoPath to be installed to be creatable
- Rule elements with identifier 0x00000210 specifying the "except if it uses the <form name> form" exception.
- Rule elements with identifier 0x00000218 specifying the "except if it is of the <specific> form type" exception.
 - o Note: this requires Microsoft InfoPath to be installed to be creatable



Number of Forms (4 bytes): An unsigned integer that specifies the number of forms in this condition.

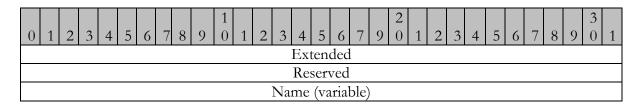
Note: this MUST be 0x00000001 (TRUE) in Outlook 98.

Forms (variable): An array of <u>Form</u> values of length **Number of Forms** that specifies the forms in this condition.

2.4.13. SendersListRuleElementData

Contains data for

- Rule elements with identifier 0x000000EB specifying the "suspected to be junk-email or from <Junk Senders>" condition.
- Rule elements with identifier 0x000000EC specifying the "containing adult content or from <Adult Content Senders>" condition.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Name (variable): A <u>String8</u> that specifies the name of the senders list.

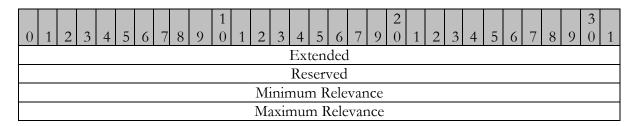
Value	Meaning
"Junk Senders"	Junk Senders List
"Adult Content Senders"	Adult Content Senders List

2.4.14. RelevanceInSpecificRangeRuleElementData

Contains data for rule elements with identifier 0x000000ED specifying the "with a relevance <in a specific range>" condition.

Note: this is hidden in Outlook by default. Requires the registry key "Computer\HKEY_CURRENT_USER\SOFTWARE\Microsoft\Office\8.0\Outlook\Relevance" to exist

Note: this



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

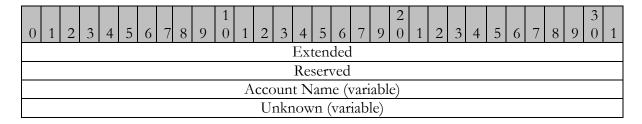
Minimum Relevance (4 bytes): An unsigned integer that specifies the minimum relevance.

Maximum Relevance (4 bytes): An unsigned integer that specifies the maximum relevance.

2.4.15. ThroughAccountRuleElementData

Contains data for

- Rule elements with identifier 0x000000EE specifying the "through the specified account" condition.
- Rule elements with identifier 0x00000214 specifying the "except through the <specified> account" exception.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

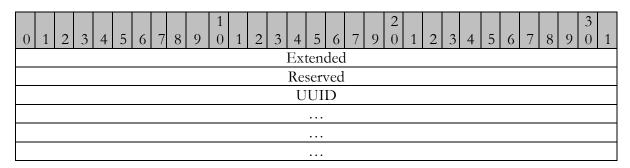
Account Name (variable): A String that specifies the account name.

Note: Outlook limits the length of this field to 63 characters.

Unknown (variable): A <u>String8</u> with unknown meaning. Observed as a 10-digit number represented as an ASCII string.

2.4.16. OnThisComputerOnlyRuleElementData

Contains data for rule elements with identifier 0x0000000EF specifying the "on this computer only" condition



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

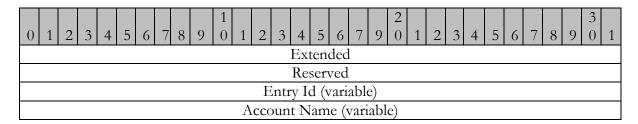
UUID (16 bytes): A GUID with unknown meaning.

2.4.17. SenderInSpecifiedAddressBookRuleElementData

Contains data for

• Rule elements with identifier 0x000000F0 specifying the "sender is in the <specified> Address Book" condition.

• Rule elements with identifier 0x00000215 specifying the "except if sender is <specified> Address Book" exception.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

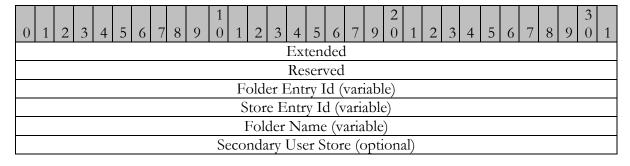
Entry Id (variable): A FlatEntry ([MS-OXCDATA] section 2.3.2) that specifies the entry ID of the Address Book. This field SHOULD contain a ContactAddressEntryID ([MS-OXCDATA] section 2.2.5.3)

Account Name (variable): A String that specifies the name of the Address Book.

2.4.18. MoveToFolderRuleElementData

Contains data for

- Rule elements with identifier 0x0000012C specifying the "move it to the <specified> folder" action.
- Rule elements with identifier 0x00000139 specifying the "move a copy to the <specified> folder" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Folder Entry Id (variable): A FlatEntry structure ([MS-OXCDATA] section 2.3.2) that specifies the entry ID of the destination folder. This field SHOULD contain a FolderEntryId ([MS-OXCDATA] section 2.2.4.1).

Store Entry Id (variable): A FlatEntry structure ([MS-OXCDATA] section 2.3.2) that specifies the entry ID of the mailbox that contains the destination folder. This field SHOULD contain a Store object EntryID ([MS-OXCDATA] section 2.2.4.3)

FolderName (variable): A <u>String</u> that specifies the name of the destination folder.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

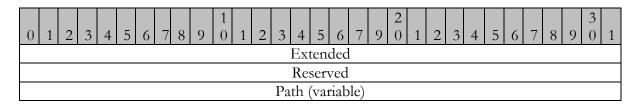
Secondary User Store (4 bytes, optional): An unsigned integer that specifies whether the folder's PidTagStoreProvider property is not the Primary User Store (5494A1C0-297F-101B-A587-08002B2A2517)¹. This field MUST NOT be present in Outlook 97 and earlier versions.

Value	Meaning
0x00000000	TRUE
0x00000001	FALSE

2.4.19. PathRuleElementData

Contains data for

- Rule elements with identifier 0x0000012F specifying the "reply using <template>" action.
- Rule elements with identifier 0x00000136 specifying the "play < sound>" action.
- Rule elements with identifier 0x00000149 specifying the "start <application>" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

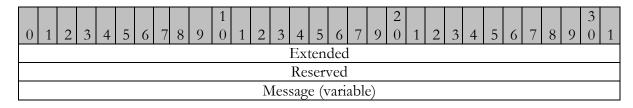
Path (variable): A String that specifies the path.

Note: Outlook limits the length of this field to 260 characters and rejects lengths over 255 characters. Outlook does not appear to validate the path.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

2.4.20. DisplayMessageInNewItemAlertWindowRuleElementData

Contains data for rule elements with identifier 0x00000130 specifying the "display <a specific message> in the New Item Alert window" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

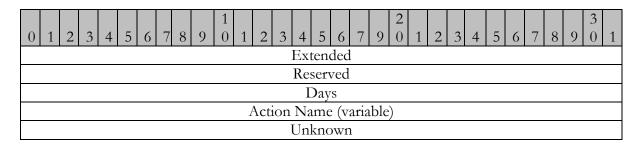
Note: this was determined by reverse engineering. See also <a href="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe?A2=MAPI-L;ed3e15a.0606&S="https://peach.ease.lsoft.com/scripts/wa-PEACH.exe.oft.com/scripts/wa-PEACH.exe.oft.com/scripts/wa-PEACH.exe.oft.com/scripts/wa-PEACH.exe.oft.com/scripts/w

Message (variable): A <u>String</u> that specifies the message to display.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

2.4.21. FlagRuleElementData

Contains data for rule elements with identifier 0x00000131 specifying the "flag message for <action in a number of days>" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Days (4 bytes): An unsigned integer that specifies the number of days to flag the action.

Note: Outlook limits this value of this field to between 0 and 365.

Action Name (variable): A <u>String</u> that specifies the name of the action.

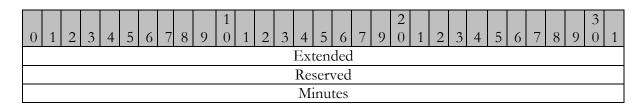
Note: Outlook limits the length of this field to 100 characters.

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

Unknown3 (4 bytes): An unsigned integer with unknown meaning. Always zero.

2.4.22. DeferDeliveryRuleElementData

Contains data for rule elements with identifier 0x0000013E specifying the "defer delivery by <a number of> minutes" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

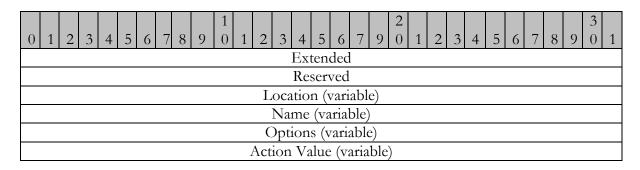
Minutes (4 bytes): An unsigned integer that specifies the number of minutes for which you want the messages to be held before it is sent.

Note: Outlook limits the maximum value of this field to 120 minutes (2 hours).

2.4.23. PeformCustomActionRuleElementData

Contains data for rule elements with identifier 0x0000013F specifying the "perform <a custom action>" action.

Note: this has been removed in Outlook 2010.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

Location (variable): A <u>String</u> that specifies the location of the DLL that contains the action. The format is "4.0;<Location>[;1]" where "<Location>" represents the file path of the DLL and "[;1]" is appended if no options/values are set

- E.g. "4.0;C:\\Program Files (x86)\\TechHit.com\\AutoRead\\autoread.dll;1"
- E.g. "4.0;C:\\Program Files (x86)\\TechHit.com\\AutoRead\\autoread.dll"

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

Name (variable): A <u>String</u> that specifies the name of the custom action.

• E.g. "AutoRead"

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

Options (variable): A **String** that specifies the options of the custom action. The format is a repeating series of "<key>: <value" strings separated and terminated by the pipe character ("|")

• E.g. "v: 1 | c: autoread | b: 4 | "

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

Action Value (variable): A <u>String</u> that specifies the action value of the custom action.

• E.g. "AutoRead"

Note: this field is a **String8** (ASCII) Outlook 2000 and earlier versions.

2.4.24. AddToRelevanceRuleElementData

Contains data for rule elements with identifier 0x00000145 specifying the "add <number> to relevance" action.

Note: this is hidden in Outlook by default. Requires the registry key "Computer\HKEY_CURRENT_USER\SOFTWARE\Microsoft\Office\8.0\Outlook\Relevance" to exist.



Reserved	
Number	

Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

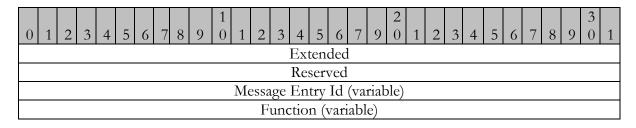
Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

Number (4 bytes): An unsigned integer that specifies the number to add to the message's relevance. It is unclear what the relevance of a message is.

Note: Outlook allows the spinner to be a negative value but this is converted to an unsigned integer (e.g. -5 becomes 4294967291).

2.4.25. AutomaticReplyRuleElementData

Contains data for rule elements with identifier 0x00000146 specifying the "have server reply using <a specific message>" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

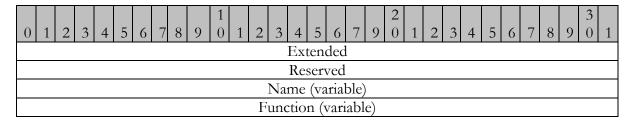
Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

Message Entry Id (variable): A FlatEntry structure ([MS-OXCDATA] section 2.3.2) that contains a MessageEntryId ([MS-OXCDATA] section 2.2.4.2) that specifies the entry ID of the message to send.

Name (variable): A <u>String</u> that specifies the name of the message.

2.4.26. RunScriptRuleElementData

Contains data for rule elements with identifier 0x0000014B specifying the "run <script>" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

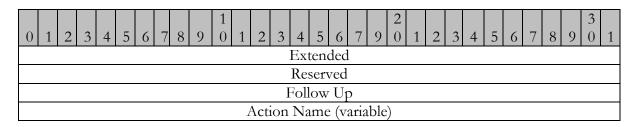
Reserved (4 bytes): Reserved. This field MUST be set to 0x00000000.

Name (variable): A <u>String</u> that specifies the name of the function.

Function (variable): A <u>String</u> that specifies the name of the function.

2.4.27. FlagForFollowUpRuleElementData

Contains data for rule elements with identifier 0x00000151 specifying the "flag message for <follow up at this time>" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Follow Up (4 bytes): An unsigned integer that specifies when to follow up.

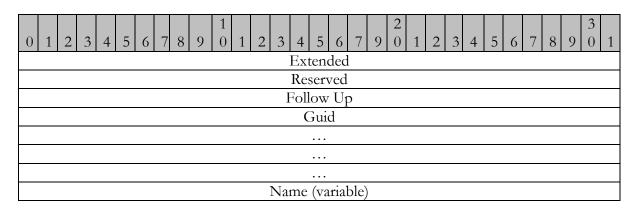
Value	Name
0x00000001	Today
0x00000002	Tomorrow
0x00000003	This Week
0x00000004	Next Week
0x00000002	No Date
0x00000002	Complete

Action Name (variable): A <u>String</u> that specifies the name of the action.

Note: Outlook limits the length of this field to 100 characters.

2.4.28. ApplyRetentionPolicyRuleElementData

Contains data for rule elements with identifier 0x00000153 specifying the "apply retention policy: <retention policy>" action.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

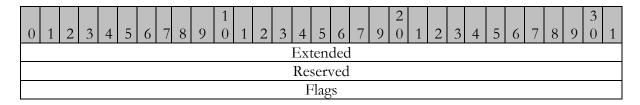
Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Guid (16 bytes): A GUID that specifies the identifier of the retention policy.

Name (variable): A <u>String</u> that specifies the name of the retention policy.

2.4.29. ApplyRuleElementData

Contains data for rule elements with identifier 0x00000190 specifying the type of messages to which this rule applies.



Extended (4 bytes): An unsigned integer that specifies if the field contains extended data. This field MUST be 0x00000001 (TRUE).

Reserved (4 bytes): Reserved. This field MUST be set to 0x000000000.

Flags (4 bytes): An unsigned integer that specifies the target that applies.

Value	Meaning
0x00000001	"after the message arrives"
0x00000004	"after I send the message"
0x00000008	"after the server receives the message"