

# [MS-OXBBODY]: Best Body Retrieval Algorithm

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# 1 Introduction

The Best Body Retrieval Algorithm determines the best format of a **message body (2)**. This algorithm enables clients to determine the format of the message body (2) that is most like the original message, and maintains the richness of the text and formatting in the original message.

Exactly how the server converts message text from one format to another, and to what extent formatting is preserved in the conversion, is implementation-dependent.

Section 2 of this specification is normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Section 1.6 is 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 [\[MS-OXGLOS\]](#):

**best body**  
**Hypertext Markup Language (HTML)**  
**message body**  
**Message object**  
**plain text**  
**recipient**  
**remote operation (ROP)**  
**Rich Text Format (RTF)**  
**rights-managed email message**  
**ROP request**  
**S/MIME (Secure/Multipurpose Internet Mail Extensions)**

The following terms are specific to this document:

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

## 1.2 References

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

### 1.2.1 Normative References

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

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

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

[MS-OXCROPS] Microsoft Corporation, "[Remote Operations \(ROP\) List and Encoding Protocol](#)".

[MS-OXCRPC] Microsoft Corporation, "[Wire Format Protocol](#)".

[MS-OXORMMS] Microsoft Corporation, "[Rights-Managed Email Object Protocol](#)".

[MS-OXOSMIME] Microsoft Corporation, "[S/MIME Email Object Algorithm](#)".

[MS-OXPROPS] Microsoft Corporation, "[Exchange Server Protocols Master Property List](#)".

[MS-OXRTFEX] Microsoft Corporation, "[Rich Text Format \(RTF\) Extensions Algorithm](#)".

[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>

### 1.2.2 Informative References

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

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

### 1.3 Overview

The **best body** algorithm determines the original, primary, or best format in which to transmit a message body (2) to a client. The best body algorithm enables clients that are capable of handling multiple message body (2) formats to determine which of the formats that they support is most like the original message. Requesting a message by using the best body algorithm maintains as much of the richness of the text and formatting in the original message as possible. The algorithm uses a combination of **remote operations (ROPs)** and property values to determine the best body format of the message. The best body format can be one of the following formats:

- **Plain text** – This format cannot display colors, different fonts, or emphasis such as bold or italic text. Plain text is the most accepted messaging format. Most e-mail message readers can display messages in plain text format.
- **Rich Text Format (RTF)** – This format displays colors, different fonts, emphasis, and formatting, such as bullets, text alignment, and linked objects.
- **HTML** – This format is sent as an HTML page, complete with tags to change the appearance of the text. The **recipient's (1)** e-mail client program then formats and displays the HTML.

### 1.4 Relationship to Protocols and Other Algorithms

This algorithm relies on [\[MS-OXCROPS\]](#), [\[MS-OXPROPS\]](#), and [\[MS-OXCADATA\]](#) for the specification of the **RopGetPropertySpecific ROP request** ([\[MS-OXCROPS\]](#) section 2.2.8.3), property values, and status codes.

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

### 1.5 Applicability Statement

The algorithm described in this document is used by a client to determine the format in which to retrieve a message from the server, when the client accepts multiple message body (2) formats.

The best body algorithm applies to **Message objects** of all types except when the following conditions are true:

- The value of the **PidTagMessageClass** property ([\[MS-OXCMSG\]](#) section 2.2.1.3) is exactly "IPM.Note.SMIME" (section [2.1.3.3](#)). If the value of the **PidTagMessageClass** property is "IPM.Note.SMIME.MultipartSigned", then the algorithm described in section [2.1.3.1](#) is applicable.
- The value of the **PidTagMessageClass** property is "IPM.Note" and the value of the **PidNameContentClass** property ([\[MS-OXCMSG\]](#) section 2.2.1.48) is "rmsg.Message", as described in section [2.1.3.4](#).

## 1.6 Standards Assignments

None.

## 2 Algorithm Details

### 2.1 Best Body Determination Algorithm Details

This section specifies the algorithm that determines the format of the message body (2) that is most like the original message, in order to maintain the richness of the text and formatting in the original message.

#### 2.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this algorithm. The described organization is provided to facilitate the explanation of how the algorithm behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

This protocol includes the following abstract data model (ADM) types and elements:

**Global.Handle**, as specified in [\[MS-OXCRPC\]](#) section 3.1.1.

**MessageObject**, as specified in [\[MS-OXCMSG\]](#) section 3.1.1.3. Additional elements for the **MessageObject** ADM type are defined in section [2.1.1.1](#).

##### 2.1.1.1 Per Message Object

A Message object is represented by the **MessageObject** ADM data type. The following ADM element is maintained by the client for each **MessageObject** ADM type:

**MessageObject.BestBody**: The original, primary, or best message body (2) format of the Message object.

##### 2.1.2 Initialization

None.

##### 2.1.3 Processing Rules

The processing rules for the best body algorithm as well as considerations for applying this algorithm to different message types are specified in sections [2.1.3.1](#) through section [2.1.3.4](#).

##### 2.1.3.1 Best Body Algorithm

The Best Body Algorithm specifies the algorithm that the client uses to determine the best body format of a message.

Step 1. Issue a **RopGetPropertiesSpecific** ROP request ([\[MS-OXCROPS\]](#) section 2.2.8.3) for the following properties: **PidTagBody** ([\[MS-OXPROPS\]](#) section 2.609), **PidTagRtfCompressed** ([\[MS-OXPROPS\]](#) section 2.930), **PidTagHtml** ([\[MS-OXPROPS\]](#) section 2.722), and **PidTagRtfInSync** ([\[MS-OXPROPS\]](#) section 2.931). The client MAY also request **PidTagNativeBody** ([\[MS-OXPROPS\]](#) section 2.794).

If the **RopGetPropertiesSpecific** ROP returns a status code that indicates a failure, then the body type is undefined and the algorithm exits.



If the client does not request all three of the body type properties (**PidTagBody**, **PidTagRtfCompressed**, and **PidTagHtml**), the server SHOULD [<1>](#) return the best value for the **PidTagNativeBody** property that fits one of the requested body types.

If the client retrieves all five property values and the value of the **PidTagNativeBody** property is as specified in the following table, then the server has already saved the best body format to use in the value of the **PidTagNativeBody** property. In this case, it is not necessary to perform the remainder of the algorithm specified in this section.

If the server returns a value for the **PidTagNativeBody** property, the client MAY use this value to determine the best body. Otherwise, the client proceeds to step 2. The following table identifies the best body format that corresponds to the value. If the **PidTagNativeBody** property is missing or the value is not provided in the following table, proceed to the remaining steps of the algorithm.

Property value	Property identifier	Body format
1	<b>PidTagBody</b>	Plain
2	<b>PidTagRtfCompressed</b>	RTF
3	<b>PidTagHtml</b>	HTML

If the server does not return the **PidTagNativeBody** property but does return the remaining four property values, then the **RopGetPropertiesSpecific** ROP returns a **StandardPropertyRow** structure ([\[MS-OXCDATA\]](#) section 2.8.1.1). If any of the four property values were not retrieved, then the **RopGetPropertiesSpecific** ROP returns a **FlaggedPropertyRow** structure ([\[MS-OXCDATA\]](#) section 2.8.1.2).

Step 2. Create four variables: *PlainStatus*, *RtfStatus*, *HtmlStatus*, and *RtfInSync*. Examine the returned property values and assign values to the corresponding variables as follows. In each case, if there is an error code, then the value for the variable is either *NotFound* or *NotEnoughMemory*.

- *PlainStatus* – If the **RopGetPropertiesSpecific** ROP returned a **StandardPropertyRow** structure, or the value of the **PidTagBody** property is a **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1), then assign the *NoError* error code to the *PlainStatus* variable; else copy the error code from the **FlaggedPropertyValue** structure to the *PlainStatus* variable.
- *RtfStatus* - If the **RopGetPropertiesSpecific** ROP returned a **StandardPropertyRow** structure, or the value of the **PidTagRtfCompressed** property is a **PtypBinary** ([\[MS-OXCDATA\]](#) section 2.11.1) value, then assign the *NoError* error code to the *RtfStatus* variable; else copy the error code from the **FlaggedPropertyValue** structure to the *RtfStatus* variable.
- *HtmlStatus* - If the **RopGetPropertiesSpecific** ROP returned a **StandardPropertyRow** structure, or the value of the **PidTagHtml** property is a **PtypBinary** value, then assign the *NoError* error code to the *HtmlStatus* variable; else copy the error code from the **FlaggedPropertyValue** structure to the *HtmlStatus* variable.
- *RtfInSync* - If the **RopGetPropertiesSpecific** ROP returned a **StandardPropertyRow** structure, or the value of the **PidTagRtfInSync** property is **PtypBoolean** ([\[MS-OXCDATA\]](#) section 2.11.1), then copy the **PtypBoolean** value to the *RtfInSync* variable; else assign *FALSE* to the *RtfInSync* variable.

Step 3. Determine the body format based on values of the four variables created in step 2. The following table can be implemented as an "if-then-else" chain, in exactly the order specified.

	<b>PlainStatus</b>	<b>RtfStatus</b>	<b>HtmlStatus</b>	<b>RtfInSync</b>	<b>Body format</b>
1	NotFound	NotFound	NotFound	Any	Undefined
2	NotEnoughMemory	NotFound	NotFound	Any	Plain text
3	NotEnoughMemory	NotEnoughMemory	NotFound	Any	RTF
4	NotEnoughMemory	NotEnoughMemory	NotEnoughMemory	True	RTF
5	NotEnoughMemory	NotEnoughMemory	NotEnoughMemory	False	HTML
6	Any	NoError or NotEnoughMemory	NoError or NotEnoughMemory	True	RTF
7	Any	NoError or NotEnoughMemory	NoError or NotEnoughMemory	False	HTML
8	NoError or NotEnoughMemory	NoError or NotEnoughMemory	Any	True	RTF
9.1	NoError or NotEnoughMemory	NoError or NotEnoughMemory	Any	False	Plain text
9.2	NotFound	NoError or NotEnoughMemory	NotFound	Any	RTF
9.3	NoError or NotEnoughMemory	NotFound	NotFound	Any	Plain text
9.4	NotFound	NotFound	NoError or NotEnoughMemory	Any	HTML
10	If no other case fits				Plain text

This table can be implemented by using the following pseudocode. Each row of the table is one clause of an "if-else-if" chain. Within a row, each column is ANDed together to form the condition of an "if" clause. If there is a case that is not defined, then the BodyFormat is plain text.

	<b>Code to implement</b>
	<pre>If PidTagNativeBody &lt;&gt; NotFound Then     BodyFormat = PidTagNativeBody Else</pre>
1	<pre>If ((PlainStatus = NotFound) And     (RtfStatus = NotFound) And     (HtmlStatus = NotFound)) Then     BodyFormat = Undefined</pre>
2	<pre>ElseIf ((PlainStatus = NotEnoughMemory) And     (RtfStatus = NotFound) And     (HtmlStatus = NotFound)) Then     BodyFormat = Plain</pre>

	<b>Code to implement</b>
3	<pre> ElseIf ((PlainStatus = NotEnoughMemory) And (RtfStatus = NotEnoughMemory) And (HtmlStatus = NotFound)) Then     BodyFormat = Rtf </pre>
4	<pre> ElseIf ((PlainStatus = NotEnoughMemory) And (RtfStatus = NotEnoughMemory) And (HtmlStatus = NotEnoughMemory) And (RtfInSync = True)) Then     BodyFormat = Rtf </pre>
5	<pre> ElseIf ((PlainStatus = NotEnoughMemory) And (RtfStatus = NotEnoughMemory) And (HtmlStatus = NotEnoughMemory) And (RtfInSync = False)) Then     BodyFormat = Html </pre>
6	<pre> ElseIf ((RtfStatus = NoError or RtfStatus = NotEnoughMemory) And (HtmlStatus = NoError or HtmlStatus = NotEnoughMemory) And (RtfInSync = True)) Then     BodyFormat = Rtf </pre>
7	<pre> ElseIf ((RtfStatus = NoError or RtfStatus = NotEnoughMemory) And (HtmlStatus = NoError or HtmlStatus = NotEnoughMemory) And (RtfInSync = False)) Then     BodyFormat = Html </pre>
8	<pre> ElseIf ((PlainStatus = NoError or PlainStatus = NotEnoughMemory) And (RtfStatus = NoError or RtfStatus = NotEnoughMemory) And (RtfInSync = True)) Then     BodyFormat = Rtf </pre>
9.1	<pre> ElseIf ((PlainStatus = NoError or PlainStatus = NotEnoughMemory) And (RtfStatus = NoError or RtfStatus = NotEnoughMemory) And (RtfInSync = False)) Then     BodyFormat = Plain </pre>
9.2	<pre> ElseIf ((PlainStatus = NotFound) And (RtfStatus = NoError or RtfStatus = NotEnoughMemory) And (HtmlStatus = NotFound) Then     BodyFormat = Rtf </pre>
9.3	<pre> ElseIf ((PlainStatus = NoError or PlainStatus = NotEnoughMemory) And (RtfStatus = NotFound) And (HtmlStatus = NotFound) Then     BodyFormat = Plain </pre>
9.4	<pre> ElseIf ((PlainStatus = NotFound) And (RtfStatus = NotFound) And </pre>

	Code to implement
	(HtmlStatus = NoError or HtmlStatus = NotEnoughMemory) Then BodyFormat = Html
10	Else BodyFormat = Plain
	End If End If

### 2.1.3.2 Determining Whether Plain Text or HTML Was Converted to RTF

When the result of the best body algorithm is RTF, as specified in section [2.1.3.1](#), the message body is parsed and reveals whether the RTF was generated from original plain text or HTML, as specified in [\[MS-OXRTFEX\]](#).

### 2.1.3.3 Special Considerations for S/MIME Secure Messages

The best body algorithm, as specified in section [2.1.3.1](#), yields an accurate result for a clear-signed **S/MIME (Secure/Multipurpose Internet Mail Extensions)** message, meaning the value of the **PidTagMessageClass** property ([\[MS-OXCMSG\]](#) section 2.2.1.3) is "IPM.Note.SMIME.MultipartSigned". However, the result of the best body algorithm is undefined for other types of S/MIME messages, for example, when the value of the **PidTagMessageClass** property is "IPM.Note.SMIME". For details about these message types, see [\[MS-OXOSMIME\]](#).

### 2.1.3.4 Special Considerations for Rights-Managed Secure Messages

For rights-managed secure messages, the message body (2) properties specified in this document do not contain the actual message body (2); instead, they contain boilerplate text intended for recipients (1) whose clients do not support rights-managed secure messages. The actual message body (2) resides in an attachment and is not accessible as a property of the Message object. To obtain the actual message body (2), a client MUST decrypt and parse the attachment, as specified in [\[MS-OXORMMS\]](#).

While the best body algorithm, as specified in section [2.1.3.1](#), yields a result for rights-managed secure messages, that result applies to the boilerplate text and not to the actual message body (2).

A **PidTagMessageClass** property value of "IPM.Note" denotes a standard Message object, as specified in [\[MS-OXCMSG\]](#) section 2.2.1.3. A **PidNameContentClass** property value of "rormsg.message" denotes a **rights-managed e-mail message**, as specified in [\[MS-OXORMMS\]](#) section 2.2.2.1.

### 3 Algorithm Examples

In the following example, a simple HTML message is sent to a server.

```
From: <user1@example.com>
To: <user2@example.com>
Subject: test HTML message
Date: Tue, 24 Jan 2006 01:58:57 -0800
MIME-Version: 1.0
Content-Type: text/html
Content-Transfer-Encoding: 7bit
Content-Class: urn:content-classes:message
Importance: normal

<HTML><BODY>Test message, <b>please</b> delete.</BODY></HTML>
```

The four property values of interest are returned from the server with the following values.

Property name	Value
<b>PidTagBody</b> ( <a href="#">[MS-OXPROPS]</a> section 2.609)	error, NotEnoughMemory
<b>PidTagHtml</b> ( <a href="#">[MS-OXPROPS]</a> section 2.722)	<HTML><HEAD><meta HTTP-equiv="Content-Type" content="text/HTML; charset=iso-8859-1"></HEAD><BODY>Test message, <b>please</b> delete.</BODY></HTML>
<b>PidTagRtfCompressed</b> ( <a href="#">[MS-OXPROPS]</a> section 2.930)	error, NotEnoughMemory
<b>PidTagRtfInSync</b> ( <a href="#">[MS-OXPROPS]</a> section 2.931)	FALSE

The best body algorithm, as specified in section [2.1.3.1](#), creates the four variables shown in the following table.

Variable	Value
PlainStatus	NotEnoughMemory
RtfStatus	NotEnoughMemory
HtmlStatus	NoError
RtfInSync	FALSE

The best body algorithm uses the four newly created variables and matches clause 7, as specified in section [2.1.3.1](#).

	Code to implement
<b>7</b>	<pre>ElseIf ((RtfStatus = NoError or RtfStatus = NotEnoughMemory) And         (HtmlStatus = NoError or HtmlStatus = NotEnoughMemory) And         (RtfInSync = False)) Then     BodyFormat = Html</pre>

And the result returned is HTML body format.

## **4 Security**

### **4.1 Security Considerations for Implementers**

None.

### **4.2 Index of Security Parameters**

None.

## 5 Appendix A: 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 2003
- Microsoft Exchange Server 2007
- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2013
- Microsoft Office Outlook 2003
- Microsoft Office Outlook 2007
- 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 2.1.3.1](#): The **PidTagNativeBody** property ([\[MS-OXPROPS\]](#) section 2.794) is not supported by Exchange 2003 or Exchange 2007.



## 6 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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