

[MS-METAWEB]: MetaWeblog Extensions Protocol Specification

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1 Introduction

This document specifies the MetaWeblog Extensions Protocol, which is a set of extensions to the MetaWeblog API to enable more secure authentication mechanisms.

Sections 1.8, 2, and 3 of this specification are normative and contain RFC 2119 language. Sections 1.5 and 1.9 are also normative but cannot contain RFC 2119 language. All other sections and examples in this specification are informative.

1.1 Glossary

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

Hypertext Transfer Protocol (HTTP)
NT LAN Manager (NTLM) Authentication Protocol
server
Unicode
XML

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

blog
category

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

1.2.1 Normative References

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

[Blogger API] Williams, E., "Blogger API", August 2001, http://www.blogger.com/developers/api/1_docs/

[MS-NTHT] Microsoft Corporation, "[NTLM Over HTTP Protocol Specification](#)".

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

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

[RFC-MWA] Winer, D., "RFC: MetaWeblog API", March 2002, <http://www.xmlrpc.com/metaWeblogApi>

[XML-RPC] Winer, D., "XML-RPC Specification", June 1999, <http://www.xmlrpc.com/spec>

1.2.2 Informative References

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

[MS-NLMP] Microsoft Corporation, "[NT LAN Manager \(NTLM\) Authentication Protocol Specification](#)".

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

[RFC2617] Franks, J., Hallam-Baker, P., Hostetler, J., et al., "HTTP Authentication: Basic and Digest Access Authentication", RFC 2617, June 1999, <http://www.ietf.org/rfc/rfc2617.txt>

1.3 Protocol Overview (Synopsis)

The RFC: MetaWeblog API, as described in [\[RFC-MWA\]](#), is a protocol that allows client software to get and set the text and attributes of posts on a **blog (1)**. The RFC: MetaWeblog API uses the XML-RPC communication protocol, as described in [\[XML-RPC\]](#), for communication between client applications and a blog (1) **server (1)**. The client sends XML-RPC method call requests to the server (1), and the server (1) returns a response to the client. The server (1) never initiates any communication with the client.

This protocol extends the RFC: MetaWeblog API to enable the client sending empty username and password in MetaWeblog API methods and the server (1) authenticating blog (1) users with other mechanisms in the underlying transport. A typical scenario is that a blog (1) user wants to add a new post to a blog (1) and the client software sends a method request with empty username and password parameters.

1.4 Relationship to Other Protocols

This protocol is a set of extensions to the RFC: MetaWeblog API that enables the server (1) to use other authentication methods. The RFC: MetaWeblog API is an extension of the Blogger API, as described in [\[Blogger API\]](#), therefore, many blog (1) tools and editors that support the RFC: MetaWeblog API also support the Blogger API.

1.5 Prerequisites/Preconditions

It is assumed that a MetaWeblog client has obtained the name of a server (1) that supports the RFC: MetaWeblog API before this protocol is invoked.

The protocol server (1) endpoint is formed by appending "_layouts/metaweblog.aspx" to the URL of the blog (1) site, for example, http://www.example.com/_layouts/metaweblog.aspx.

1.6 Applicability Statement

The RFC: MetaWeblog API is applicable wherever there is a need to get and set the text and attributes of posts on a blog. This protocol extension is applicable when a client using the RFC: MetaWeblog API does not send the user's name and password directly in the messages, but rather uses the authentication performed by an underlying transport.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol can only be implemented using **HTTP** as described in section [2.1](#).

Security and Authentication Methods: The MetaWeblog API methods each contain a *username* and a *password* parameter for user authentication purposes. Some MetaWeblog servers also support alternate authentication methods such as **NT LAN Manager (NTLM) Authentication Protocol**, as described in [\[MS-NLMP\]](#), and HTTP authentication, as described in [\[RFC2617\]](#).

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

A MetaWeblog message is an HTTP version 1.1 POST request as specified in [\[RFC2616\]](#). The body of the request is in **XML**. A procedure executes on the server (1) and the response it returns is formatted in XML.

2.2 Common Message Syntax

The format of the XML body for an XML-RPC request and response is specified in [\[XML-RPC\]](#).

The format of the method request and response for each MetaWeblog method is specified in [\[RFC-MWA\]](#).

The Blogger API functions are specified in [\[Blogger API\]](#).

Each method in the MetaWeblog API provides *username* and *password* parameters for authenticating the blog (1) user with the server (1). If the server (1) is capable of authenticating the user by using the authentication methods described in section 1.7 these parameters are not necessary and a client SHOULD [<1><2>](#) pass them as empty elements.

2.2.1 metaWeblog.newPost Extension

The **metaWeblog.newPost** method posts a new entry to a blog (1). The structure of this method, as specified in [\[RFC-MWA\]](#), is as follows.

```
public string metaWeblog.newPost(string blogid,  
    string username,  
    string password,  
    struct struct,  
    bool publish);
```

The use of the following parameters differs from that which is specified in [\[RFC-MWA\]](#):

username: An XML-encoded **Unicode** string that contains the login for the blog (1) user, which SHOULD [<3>](#) be empty.

password: An XML-encoded Unicode string that contains the user's password, which SHOULD [<4>](#) be empty.

2.2.2 metaWeblog.editPost Extension

The **metaWeblog.editPost** method edits an existing entry on a blog (1). The structure of this method, as specified in [\[RFC-MWA\]](#), is as follows.

```
public bool metaWeblog.editPost(string postid,  
    string username,  
    string password,  
    struct struct,  
    bool publish);
```

The use of the following parameters differs from that which is specified in [\[RFC-MWA\]](#):

username: An XML-encoded Unicode string containing the login for the blog (1) user, which SHOULD<5> be empty.

password: An XML-encoded Unicode string containing the user's password, which SHOULD<6> be empty.

2.2.3 metaWeblog.getPost Extension

The **metaWeblog.getPost** method returns a specific entry from a blog (1). The structure of this method, as specified in [\[RFC-MWA\]](#), is as follows.

```
public struct metaWeblog.getPost(string postId,  
    string username,  
    string password);
```

The use of the following parameters differs from that which is specified in [\[RFC-MWA\]](#):

username: An XML-encoded Unicode string containing the login for the blog (1) user, which SHOULD<7> be empty.

password: An XML-encoded Unicode string containing the user's password, which SHOULD<8> be empty.

2.2.4 metaWeblog.newMediaObject Extension

The **metaWeblog.newMediaObject** method uploads a file from a user's computer to the user's blog (1). The structure of this method, as specified in [\[RFC-MWA\]](#), is as follows.

```
public struct metaWeblog.newMediaObject(string blogid,  
    string username,  
    string password,  
    struct struct);
```

The use of the following parameters differs from that which is specified in [\[RFC-MWA\]](#):

username: An XML-encoded Unicode string containing the login for the blog (1) user, which SHOULD<9> be empty.

password: An XML-encoded Unicode string containing the user's password, which SHOULD<10> be empty.

2.2.5 metaWeblog.getCategories Extension

The **metaWeblog.getCategories** method returns the list of **categories (1)** that have been used in the blog (1). The structure of this method, as specified in [\[RFC-MWA\]](#), is as follows.

```
public struct[] metaWeblog.getCategories(string blogid,  
    string username,  
    string password);
```

The use of the following parameters differs from that which is specified in [\[RFC-MWA\]](#):

username: An XML encoded Unicode string containing the login for the blog (1) user, which SHOULD<11> be empty.

password: An XML encoded Unicode string containing the user's password, which SHOULD [<12>](#) be empty.

2.2.6 metaWeblog.getRecentPosts Extension

The **metaWeblog.getRecentPosts** method returns the most recent draft and non-draft blog (1) posts in descending order by publish date. The structure of this method, as specified in [\[RFC-MWA\]](#), is as follows.

```
public struct[] metaWeblog.getRecentPosts(string blogid,  
    string username,  
    string password,  
    int numberOfPosts);
```

The use of the following parameters differs from that which is specified in [\[RFC-MWA\]](#):

username: An XML encoded Unicode string containing the login for the blog (1) user, which SHOULD [<13>](#) be empty.

password: An XML encoded Unicode string containing the user's password, which SHOULD [<14>](#) be empty.

2.2.7 blogger.getUsersBlogs Extension

The **blogger.getUsersBlogs** method returns a list of blogs (1) to which the current authenticated user has posting privileges. The structure of this method, as specified in [\[Blogger API\]](#), is as follows.

```
public struct[] blogger.getUsersBlogs(string appkey,  
    string username,  
    string password);
```

The use of the following parameters differs from that which is specified in [\[Blogger API\]](#):

username: An XML-encoded Unicode string containing the login for the blog (1) user, which SHOULD [<15>](#) be empty.

password: An XML-encoded Unicode string containing the user's password, which SHOULD [<16>](#) be empty.

3 Protocol Details

3.1 Common Details

3.1.1 Abstract Data Model

The abstract data model follows the specifications in [\[RFC-MWA\]](#) and [\[XML-RPC\]](#).

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

None.

3.1.5 Message Processing Events and Sequencing Rules

When the server (1) receives a protocol message containing an empty *username* or an empty *password*, the server (1) MUST ensure that authentication has been established through some other mechanism compatible with the HTTP transport, as specified in [\[RFC2616\]](#), before performing the requested action. <17>

If the authentication through other mechanism fails to authenticate a blog user to the MetaWeblog service, an error MUST be returned as an XML-RPC <methodResponse> with a <fault> item, as specified in [\[XML-RPC\]](#). If the authentication through other mechanism succeeds in authenticating the blog user, server (1) MUST perform the requested action and return a response, as specified in [\[RFC-MWA\]](#).

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

4 Protocol Examples

4.1 Client Messages

Each method, as described in [\[RFC-MWA\]](#), follows a similar request and response pattern. The following example demonstrates a request with empty *username* and *password* parameters.

4.1.1 metaWeblog.newPost

When a blog (1) user adds a new post to a blog (1) the client software will send a metaWeblog.newPost request, as described in [\[XML-RPC\]](#), with a body formatted as XML as follows.

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall>
  <methodName>metaWeblog.newPost</methodName>
  <params>
    <param>
      <value>
        <string>MyBlog</string>
      </value>
    </param>
    <param>
      <value>
        <string></string>
      </value>
    </param>
    <param>
      <value>
        <string></string>
      </value>
    </param>
    <param>
      <value>
        <struct>
          <member>
            <name>title</name>
            <value>
              <string>My Title</string>
            </value>
          </member>
          <member>
            <name>description</name>
            <value>
              <string>My descriptionstring</string>
            </value>
          </member>
          <member>
            <name>categories</name>
            <value>
              <array>
                <data>
                  <value>
                    <string>My Category</string>
                  </value>
                </data>
              </array>
            </value>
          </member>
        </struct>
      </value>
    </param>
  </params>
</methodCall>
```

```
        </member>
      </struct>
    </value>
  </param>
  <param>
    <value>
      <boolean>1</boolean>
    </value>
  </param>
</params>
</methodCall>
```

The server (1) processes the metaWeblog.newPost method request and returns a response, as described in [\[XML-RPC\]](#), with a body formatted as XML as follows.

```
<?xml version="1.0" encoding="UTF-8"?>
<methodResponse>
  <params>
    <param>
      <value>1829</value>
    </param>
  </params>
</methodResponse>
```

5 Security

5.1 Security Considerations for Implementers

The protocol described in [\[RFC-MWA\]](#) uses HTTP version 1.1 as its transport mechanism. The security considerations for HTTP 1.1 are described in [\[RFC2616\]](#), section 15.

The protocols described in [\[Blogger API\]](#) and [\[RFC-MWA\]](#) use clear-text *username* and *password* parameters for authentication. This makes the protocol vulnerable to replay attacks and permits the recovery of the user's password via the recording of client and server (1) protocol exchanges.

The vulnerabilities of the RFC: MetaWeblog API can be mitigated by relying on authentication methods in the underlying transport such as the NTLM Over HTTP protocol, as described in [\[MS-NTHT\]](#) or in [\[RFC2617\]](#), and by sending empty *username* and *password* parameters in the message, as described in [\[RFC-MWA\]](#).

5.2 Index of Security Parameters

None.

6 Appendix A: XML-RPC Schema

For ease of implementation the following XML-RPC Schema is provided.

```
<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">

  <xsd:element name="methodCall">
    <xsd:complexType>
      <xsd:all>
        <xsd:element name="methodName">
          <xsd:simpleType>
            <xsd:restriction base="ASCIIString">
              <xsd:pattern value="([A-Za-z0-9]|\.|\\.|_|)" />
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="params" minOccurs="0" maxOccurs="1">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="param" type="ParamType"
                minOccurs="0" maxOccurs="unbounded" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:all>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="methodResponse">
    <xsd:complexType>
      <xsd:choice>
        <xsd:element name="params">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="param" type="ParamType" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="fault">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="value">
                <xsd:complexType>
                  <xsd:sequence>
                    <xsd:element name="struct">
                      <xsd:complexType>
                        <xsd:sequence>
                          <xsd:element name="member"
                            type="MemberType" />
                          <xsd:element name="member"
                            type="MemberType" />
                        </xsd:sequence>
                      </xsd:complexType>
                    </xsd:element>
                  </xsd:sequence>
                </xsd:complexType>
              </xsd:element>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:choice>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

```

        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:complexType>
</xsd:element>

<xsd:complexType name="ParamType">
    <xsd:sequence>
        <xsd:element name="value" type="ValueType" />
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ValueType" mixed="true">
    <xsd:choice>
        <xsd:element name="i4" type="xsd:int" />
        <xsd:element name="int" type="xsd:int" />
        <xsd:element name="string" type="ASCIIString" />
        <xsd:element name="double" type="xsd:decimal" />
        <xsd:element name="Base64" type="xsd:base64Binary" />
        <xsd:element name="boolean" type="NumericBoolean" />
        <xsd:element name="dateTime.iso8601" type="xsd:dateTime" />
        <xsd:element name="array" type="ArrayType" />
        <xsd:element name="struct" type="StructType" />
    </xsd:choice>
</xsd:complexType>

<xsd:complexType name="StructType">
    <xsd:sequence>
        <xsd:element name="member" type="MemberType"
            maxOccurs="unbounded" />
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MemberType">
    <xsd:sequence>
        <xsd:element name="name" type="xsd:string" />
        <xsd:element name="value" type="ValueType" />
    </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ArrayType">
    <xsd:sequence>
        <xsd:element name="data">
            <xsd:complexType>
                <xsd:sequence>
                    <xsd:element name="value" type="ValueType"
                        minOccurs="0" maxOccurs="unbounded" />
                </xsd:sequence>
            </xsd:complexType>
        </xsd:element>
    </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="ASCIIString">
    <xsd:restriction base="xsd:string">
        <xsd:pattern value="([ -~]|\n|\r|\t)*" />
    </xsd:restriction>
</xsd:simpleType>

```

```
<xsd:simpleType name="NumericBoolean">
  <xsd:restriction base="xsd:boolean">
    <xsd:pattern value="0|1" />
  </xsd:restriction>
</xsd:simpleType>

</xsd:schema>
```

Preliminary

7 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- The 2007 Microsoft® Office system
- Microsoft® Office 2010 suites
- Microsoft® Office 15 Technical Preview
- Windows® SharePoint® Services 3.0
- Microsoft® SharePoint® Foundation 2010
- Microsoft® SharePoint® Foundation 15 Technical Preview

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 2.2:](#) Office Word 2007 sends an empty *password* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a non-empty password, but by default it will send a failure response if the client sends a non-empty password.

[<2> Section 2.2:](#) Office Word 2007 sends an empty *username* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a nonempty *username*, but by default it will send a failure response if the client sends a nonempty *username*.

[<3> Section 2.2.1:](#) Office Word 2007 sends an empty *username* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a nonempty *username*, but by default it will send a failure response if the client sends a nonempty *username*.

[<4> Section 2.2.1:](#) Office Word 2007 sends an empty *password* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a non-empty password, but by default it will send a failure response if the client sends a non-empty password.

[<5> Section 2.2.2:](#) Office Word 2007 sends an empty *username* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a nonempty *username*, but by default it will send a failure response if the client sends a nonempty *username*.

<6> [Section 2.2.2:](#) Office Word 2007 sends an empty *password* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a non-empty password, but by default it will send a failure response if the client sends a non-empty password.

<7> [Section 2.2.3:](#) Office Word 2007 sends an empty *username* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a nonempty *username*, but by default it will send a failure response if the client sends a nonempty *username*.

<8> [Section 2.2.3:](#) Office Word 2007 sends an empty *password* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a non-empty password, but by default it will send a failure response if the client sends a non-empty password.

<9> [Section 2.2.4:](#) Office Word 2007 sends an empty *username* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a nonempty *username*, but by default it will send a failure response if the client sends a nonempty *username*. `metaWeblog.newMediaObject` method is not supported on Office server and server (1) will send a failure response if client calls this method.

<10> [Section 2.2.4:](#) Office Word 2007 sends an empty *password* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a non-empty password, but by default it will send a failure response if the client sends a non-empty password. `metaWeblog.newMediaObject` method is not supported on Office server and server (1) will send a failure response if client calls this method.

<11> [Section 2.2.5:](#) Office Word 2007 sends an empty *username* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a nonempty *username*, but by default it will send a failure response if the client sends a nonempty *username*.

<12> [Section 2.2.5:](#) Office Word 2007 sends an empty *password* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a non-empty password, but by default it will send a failure response if the client sends a non-empty password.

<13> [Section 2.2.6:](#) Office Word 2007 sends an empty *username* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a nonempty *username*, but by default it will send a failure response if the client sends a nonempty *username*.

<14> [Section 2.2.6:](#) Office Word 2007 sends an empty *password* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows

SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a non-empty password, but by default it will send a failure response if the client sends a non-empty password.

[<15> Section 2.2.7:](#) Office Word 2007 sends an empty *username* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a nonempty *username*, but by default it will send a failure response if the client sends a nonempty *username*.

[<16> Section 2.2.7:](#) Office Word 2007 sends an empty *password* parameter when communicating with Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010. Office SharePoint Server 2007, SharePoint Server 2010, Windows SharePoint Services 3.0, SharePoint Foundation 2010 can be configured to allow a non-empty password, but by default it will send a failure response if the client sends a non-empty password.

[<17> Section 3.1.5:](#) Office SharePoint Server 2007 authenticates blog (1) users using [\[MS-NTHT\]](#).

8 Change Tracking

This section identifies changes that were made to the [MS-METAWEB] protocol document between the June 2011 and January 2012 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

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

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

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

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

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

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

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

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

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

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

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

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

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
2.2.1 metaWeblog.newPost Extension	Added description of product behavior for an empty "username" parameter.	N	New product behavior note added.
2.2.1 metaWeblog.newPost Extension	Added description of product behavior for an empty "password" parameter.	N	New product behavior note added.
2.2.4 metaWeblog.newMediaObject Extension	Added description of product behavior for an empty "username" parameter.	N	Product behavior note updated.
2.2.5 metaWeblog.getCategories Extension	Added description of product behavior for an empty "username" parameter.	N	New product behavior note added.
2.2.5 metaWeblog.getCategories Extension	Added description of product behavior for an empty "password" parameter.	N	New product behavior note added.
3.1.5 Message Processing Events and Sequencing Rules	Updated description of product behavior regarding authentication.	N	Product behavior note updated.

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