

[MS-EAWF]:

Group Approval Web Service Protocol

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Revision Summary

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1 Introduction

This document specifies the Group Approval Web Service Protocol, which enables the protocol client to specify and retrieve data that is required to submit or approve one or more documents that are part of Group Approval library and workflow policy.

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

approval line: A sequence of approval participants in an approval workflow.

backward signing: A condition of a handwritten signature, in an image or .ink file, that specifies the direction of the characters in the signature, right-to-left or left-to-right.

check out: The process of retrieving a writable copy of a file or project from a source repository. This locks the file for editing to prevent other users from overwriting or editing it inadvertently. See also check in.

checked out: A publishing level that indicates that a document has been created and locked for exclusive editing by a user in a version control system.

content type: A named and uniquely identifiable collection of settings and fields that store metadata for individual items in a SharePoint list. One or more content types can be associated with a list, which restricts the contents to items of those types.

content type identifier: A unique identifier that is assigned to a **content type**.

current user: The user who is authenticated during processing operations on a front-end web server or a back-end database server.

document: An object in a content database such as a file, folder, list (1), or **site**. Each object is identified by a URI.

draft: A version of a document or list item that does not have a publishing level of "Published" or "Checked Out".

email address: A string that identifies a user and enables the user to receive Internet messages.

folder: A file system construct. File systems organize a volume's data by providing a hierarchy of objects, which are referred to as folders or directories, that contain files and can also contain other folders.

Group Approval document: A document that is subject to the policies defined for a Group Approval workflow.

Group Approval document identifier: A string that uniquely identifies a document that is subject to the policies defined for a Group Approval workflow. The string is generated and assigned to a document automatically by a protocol server.

item identifier: An integer that uniquely identifies an item in a SharePoint list.

labeling policy: A policy that supports the addition of labels to a list item.

locked: The condition of a cell, worksheet, or other object that restricts edits or modifications to it by users.

login name: A string that is used to identify a user or entity to an operating system, directory service, or distributed system. For example, in Windows-integrated authentication, a login name uses the form "DOMAIN\username".

organization: A security group that contains additional fields (1) for describing hierarchical relationships between organizations.

organization identifier: A positive 32-bit integer that uniquely identifies an organization.

preferred approval line: An **approval line** that is associated with a **content type**. Every time the content type is used, the associated approval line is also used.

receiving organization: An organization that receives a copy of a document and stores it in a specified folder when a workflow is complete.

security group: A named group of principals on a SharePoint site.

security group identifier: An integer that is used to uniquely identify a security group, distinguishing it from all other security principals (2) and site groups within the same site collection.

security principal identifier: A value that is used to uniquely identify a security principal (2). In Windows-based systems, it is a security identifier (SID). In other types of systems, it can be a user identifier or other type of information that is associated with a security principal (2).

site: A group of related pages and data within a SharePoint site collection. The structure and content of a site is based on a site definition. Also referred to as SharePoint site and web site.

SOAP action: The HTTP request header field used to indicate the intent of the SOAP request, using a URI value. See [\[SOAP1.1\]](#) section 6.1.1 for more information.

SOAP body: A container for the payload data being delivered by a **SOAP message** to its recipient. See [\[SOAP1.2-1/2007\]](#) section 5.3 for more information.

SOAP fault: A container for error and status information within a **SOAP message**. See [\[SOAP1.2-1/2007\]](#) section 5.4 for more information.

SOAP message: An **XML** document consisting of a mandatory SOAP envelope, an optional SOAP header, and a mandatory **SOAP body**. See [\[SOAP1.2-1/2007\]](#) section 5 for more information.

Uniform Resource Locator (URL): A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [\[RFC1738\]](#).

user identifier: An integer that uniquely identifies a security principal (2) as distinct from all other security principals (2) and site groups within the same site collection.

Web Services Description Language (WSDL): An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

workflow: A structured modular component that enables the automated movement of documents or items through a specific sequence of actions or tasks that are related to built-in or user-defined business processes.

workflow participant: A user or group that is involved in a workflow.

WSDL operation: A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

XML: The Extensible Markup Language, as described in [\[XML1.0\]](#).

XML namespace: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [\[RFC3986\]](#). A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [\[XMLNS-2ED\]](#).

XML node: The smallest unit of a valid, complete structure in an XML document. For example, a node can represent an element, an attribute (1), or a text string.

zero-based index: An index in which the first item has an index of "0" (zero).

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

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

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.

[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.rfc-editor.org/rfc/rfc2616.txt>

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

[SOAP1.2/1] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 1: Messaging Framework", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part1-20030624>

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part2-20030624>

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

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

[XMLSCHEMA1] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

1.2.2 Informative References

None.

1.3 Protocol Overview (Synopsis)

The Group Approval Web Service Protocol is used to specify and retrieve data that is required to submit or approve **Group Approval documents**. A typical usage for this protocol is in a custom Group Approval application that allows users to access Group Approval data remotely. Such an application could use this protocol to provide users with a way to maintain data on a central protocol server and access it through multiple protocol clients from different locations.

This protocol enables a protocol client to:

- Retrieve data about the current user of a **site**
- Retrieve data about the document **check out** status on a site
- Retrieve data about the **backward signing** of a **content type**
- Retrieve data about a **Group Approval document identifier** which is assigned to a specific **document**
- Add or update data about the **preferred approval line** of a content type
- Retrieve data about the preferred approval line of a content type
- Retrieve data about the **receiving organization** of a content type

1.4 Relationship to Other Protocols

This protocol uses the SOAP message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2/1\]](#) and [\[SOAP1.2/2\]](#). It transmits those messages by using HTTP, as described in [\[RFC2616\]](#), or Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS), as described in [\[RFC2818\]](#).

The following diagram shows the underlying messaging and transport stack used by the protocol:

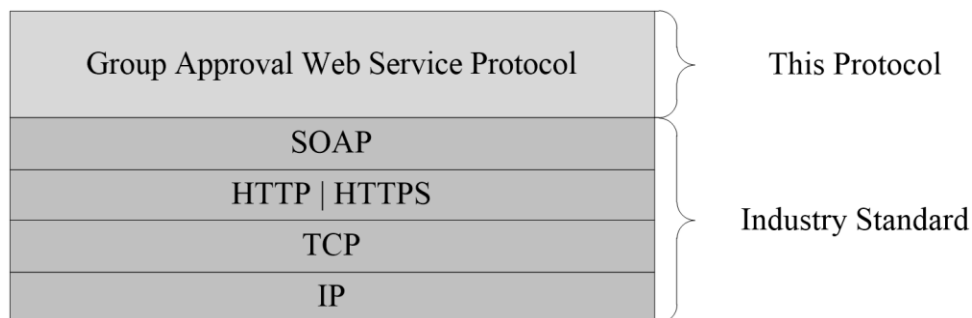


Figure 1: This protocol in relationship to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a site that is identified by a **URL** that is known by protocol clients. The protocol server endpoint is formed by appending "/_vti_bin/eaworkflow.asmx" to the URL of the site, for example:

http://www.contoso.com/repository/_vti_bin/eaworkflow.asmx.

This protocol assumes that authentication has been performed by the underlying protocols.

1.6 Applicability Statement

This protocol is used to retrieve information that is related to **current user**, document, and content type from a remote server.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported transports:** This protocol uses multiple transports with SOAP as specified in section [2.1](#).

1.8 Vendor-Extensible Fields

The message **GetNewDocumentIdResponse** referred to in section [3.1.4.4.2.2](#), contains the **LabelMetaProperty** element, which is vendor-extensible. **LabelMetaProperty** can be structured as **XML nodes** which are defined from a label specified in the **labeling policy**.

1.9 Standards Assignments

None.

2 Messages

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

2.1 Transport

Protocol servers **MUST** support SOAP over HTTP. Protocol servers **SHOULD** additionally support SOAP over HTTPS for securing communication with clients.

Protocol messages **MUST** be formatted as specified either in [\[SOAP1.1\]](#) or in [\[SOAP1.2/1\]](#). Protocol server faults **MUST** be returned either using HTTP status codes as specified in [\[RFC2616\]](#) or using **SOAP faults** as specified either in [\[SOAP1.1\]](#) or in [\[SOAP1.2/1\]](#).

2.2 Common Message Syntax

This section contains common definitions used by this protocol. The syntax of the definitions uses XML Schema as defined in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and WSDL as defined in [\[WSDL\]](#).

2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/	
s	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]
soap12	http://schemas.xmlsoap.org/wsdl/soap12/	[SOAP1.2/1] [SOAP1.2/2]
(none)	http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]

2.2.2 Messages

None.

2.2.3 Elements

The following table summarizes the set of common XML Schema element definitions defined by this specification. XML Schema element definitions that are specific to a particular operation are described with the operation.

Element	Description
ApprovalLine	An element which specifies the preferred approval line for a content type.
Participant	An element which specifies the workflow participant information for a workflow .

2.2.3.1 ApprovalLine element

The **ApprovalLine** element specifies the preferred approval line for a content type as follows:

```
<s:element name="ApprovalLine">
  <s:complexType>
    <s:sequence>
      <s:element name="Participant" minOccurs="1" maxOccurs="unbounded"/>
    </s:sequence>
    <s:attribute name="ContentTypeId" type="s:string" use="required"/>
  </s:complexType>
</s:element>
```

Participant: Specifies the **Participant** element as defined in [2.2.3.2](#). The number of **Participant** elements MUST be less than or equal to the number of signature placeholders of participants in a document.

ContentTypeId: A string which contains the valid **content type identifier** of a document.

2.2.3.2 Participant element

The **Participant** element specifies the workflow participant information for a workflow as follows:

```
<s:element name="Participant">
  <s:complexType>
    <s:sequence>
      <s:element name="ID" type="s:string" minOccurs="1" maxOccurs="1"/>
      <s:element name="Type" type="s:string" minOccurs="1" maxOccurs="1"/>
      <s:element name="Order" type="s:string" minOccurs="1" maxOccurs="1"/>
      <s:element name="ApprovalType" type="s:string" minOccurs="1" maxOccurs="1"/>
      <s:element name="Department" type="s:string" minOccurs="1" maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

ID: A string which contains the valid **security principal identifier** for the workflow participant. This value MUST be a positive 32-bit **integer string** or an empty string.

Type: A string which contains the type of workflow participant. This value MUST be case-sensitive. This value MUST be one of the following:

- **Empty:** The type of workflow participant is not applicable.

- **Person:** The type of workflow participant is a user.
- **Department:** The type of workflow participant is an **organization**.
- **Role:** The type of workflow participant is a **security group**.

Order: A string which contains a **zero-based index** into **approval line**. The "0" index of the approval line **MUST** be the user who started workflow.

ApprovalType: A string which contains the type of the approval path where this workflow participant belongs. This value **MUST** be case-sensitive. This value **MUST** be one of the following:

- **Normal:** Specifies an approval path where one workflow participant approves after another.
- **Cooperative:** Specifies an approval path where multiple workflow participants can approve in parallel. If any one of the workflow participants approves the document, then the document is regarded as approved by one normal workflow participant.
- **Coapproval:** Specifies an approval path where multiple workflow participants can approve in parallel. If all the workflow participants approve the document, then the document is regarded as approved by one normal workflow participant.

Department: A string which contains the valid **organization identifier** for the workflow participant. This value **MUST** be either a positive 32-bit integer string or an empty string.

2.2.4 Complex Types

The following table summarizes the set of common XML Schema complex type definitions defined by this specification. XML Schema complex type definitions that are specific to a particular operation are described with the operation.

Complex type	Description
SOAPFaultDetails	Specifies the details of a SOAP fault.

2.2.4.1 SOAPFaultDetails

The details of a SOAP fault defined as follows:

```
<s:schema xmlns:s="http://www.w3.org/2001/XMLSchema" targetNamespace="
http://schemas.microsoft.com/sharepoint/soap">
  <s:complexType name="SOAPFaultDetails">
    <s:sequence>
      <s:element name="errorstring" type="s:string"/>
      <s:element name="errorcode" type="s:string" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:schema>
```

errorString: A string which contains text describing the application-level fault.

errorCode: A string which contains the hexadecimal representation of a 4-byte result code.

2.2.5 Simple Types

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

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

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

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

Except where specified, protocol clients SHOULD interpret HTTP Status Codes returned by the protocol server as specified in [\[RFC2616\]](#).

This protocol allows protocol servers to notify protocol clients of application-level faults using SOAP faults. Except where specified, these SOAP faults are not significant for interoperability, and protocol clients can interpret them in an implementation-specific manner.

This protocol allows protocol servers to perform implementation-specific authorization checks and notify protocol clients of authorization faults either using HTTP Status Codes or using SOAP faults as specified previously in this section.

3.1 EAWorkflowSoap Server Details

The following diagram describes the communication between the protocol client and the protocol server:

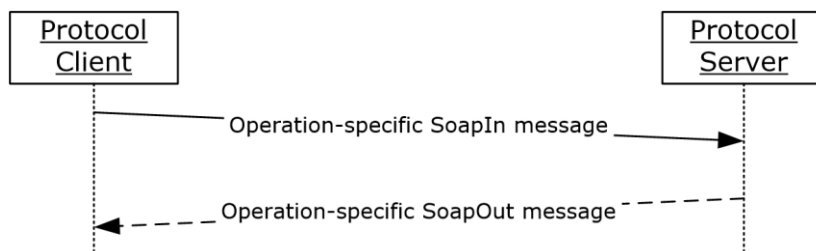


Figure 2: Communication between protocol client and protocol server

3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol 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.

The protocol server maintains a list of content types and their associated properties. The properties are the backward signing and the receiving organization.

The protocol server maintains a list of users and security groups that are authorized to submit and approve documents.

The protocol server maintains a list of files and their associated properties. The properties include the Group Approval document identifier and the check out status.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The following table describes the methods used to gather and update information contained on the protocol server:

Operation	Description
GetCurrentUserFromWeb	Get the current user information of a site.
GetDocumentLockStatus	Get the document check out status.
GetIsBackwardSigning	Get the backward signing flag which specifies whether input content type requires backward signing or not.
GetNewDocumentId	Get the label information from the labeling policy.
GetPreferredApprovalLine	Get the preferred approval line information for an input content type.
GetReceivingDepartment	Get the receiving organization for an input content type.
SetPreferredApprovalLine	Set the preferred approval line information for an input content type.

3.1.4.1 GetCurrentUserFromWeb

This operation is used to get information about the current user of a site and is defined as follows:

```
<wsdl:operation name="GetCurrentUserFromWeb">
  <wsdl:input message="GetCurrentUserFromWebSoapIn" />
  <wsdl:output message="GetCurrentUserFromWebSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetCurrentUserFromWebSoapIn** request message, and the protocol server responds with a **GetCurrentUserFromWebSoapOut** response message.

The protocol client can request information about the current user of the protocol server's site.

1. The protocol client asks the protocol server for the information about the current user using the **GetCurrentUserFromWeb** web service method.
2. The protocol server responds with user information which is comprised of a **user identifier**, a **login name** and an **e-mail address**.

The following diagram shows the exchange between the protocol client and the protocol server.

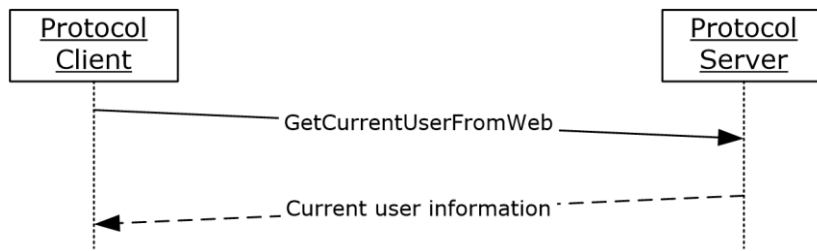


Figure 3: Retrieving information about the current user

3.1.4.1.1 Messages

3.1.4.1.1.1 GetCurrentUserFromWebSoapIn

A **SOAP message** that contains information required by the **GetCurrentUserFromWeb WSDL operation** that is used to call the **GetCurrentUserFromWeb** SOAP method.

The **SOAP action** value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetCurrentUserFromWeb
```

The **SOAP body** contains a **GetCurrentUserFromWeb** element.

3.1.4.1.1.2 GetCurrentUserFromWebSoapOut

A SOAP message that contains results returned by the **GetCurrentUserFromWeb** WSDL operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetCurrentUserFromWeb
```

The SOAP body contains a **GetCurrentUserFromWebResponse** element.

3.1.4.1.2 Elements

3.1.4.1.2.1 GetCurrentUserFromWeb

The input data of a **GetCurrentUserFromWeb** WSDL operation defined as follows:

```
<s:element name="GetCurrentUserFromWeb">
  <s:complexType/>
</s:element>
```

3.1.4.1.2.2 GetCurrentUserFromWebResponse

The following is the result data of a **GetCurrentUserFromWeb** WSDL operation:

```
<s:element name="GetCurrentUserFromWebResponse">
  <s:complexType>
  <s:sequence>
    <s:element name="GetCurrentUserFromWebResult" minOccurs="1" maxOccurs="1">
      <s:complexType>
      <s:sequence>
        <s:element name="CurrentUserFromWeb" minOccurs="1" maxOccurs="1"/>
      </s:sequence>
    </s:element>
  </s:sequence>
</s:complexType>
</s:element>
```

```

        <s:complexType>
          <s:sequence>
            <s:element name="ID" type="s:string" minOccurs="1" maxOccurs="1"/>
            <s:element name="LoginName" type="s:string" minOccurs="1" maxOccurs="1"/>
            <s:element name="Email" type="s:string" minOccurs="1" maxOccurs="1"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>

```

GetCurrentUserFromWebResult: Contains a **CurrentUserFromWeb** element which specifies current user information of a site.

ID: A string that contains the valid user identifier for the current user. This value MUST be a positive 32-bit **integer string**.

LoginName: A string that contains the login name of the current user.

Email: A string that contains the e-mail address of the current user.

3.1.4.1.3 Complex Types

None.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 GetDocumentLockStatus

This operation is used to get the check out status of a given document at a given URL and is defined as follows:

```

<wsdl:operation name="GetDocumentLockStatus">
  <wsdl:input message="GetDocumentLockStatusSoapIn" />
  <wsdl:output message="GetDocumentLockStatusSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetDocumentLockStatusSoapIn** request message, and the protocol server responds with a **GetDocumentLockStatusSoapOut** response message, as follows:

1. The protocol client asks the protocol server for the information of the current document to see if it is opened for editing or viewing using the **GetDocumentLockStatus** web service method.
2. The protocol server responds with document check out status information. The status information MUST be one of the following values: "none", "shortterm", "longterm", "longtermoffline", or "error".

The following diagram shows the exchange between the protocol client and the protocol server.

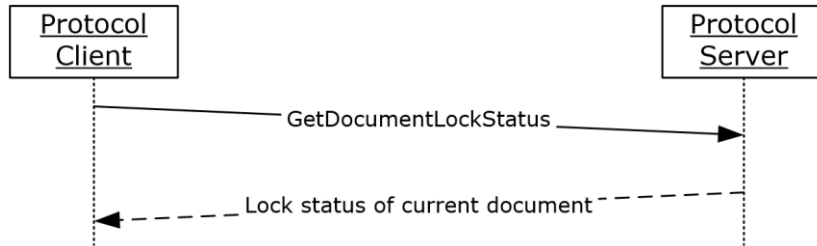


Figure 4: Retrieving information about the check out status for the current document

3.1.4.2.1 Messages

3.1.4.2.1.1 GetDocumentLockStatusSoapIn

A SOAP message that contains information required by the **GetDocumentLockStatus** WSDL operation that is used to call the **GetDocumentLockStatus** SOAP method.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetDocumentLockStatus
```

The SOAP body contains a **GetDocumentLockStatus** element.

3.1.4.2.1.2 GetDocumentLockStatusSoapOut

A SOAP message that contains results returned by the **GetDocumentLockStatus** WSDL operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetDocumentLockStatus
```

The SOAP body contains a **GetDocumentLockStatusResponse** element.

3.1.4.2.2 Elements

3.1.4.2.2.1 GetDocumentLockStatus

The input data of a **GetDocumentLockStatus** WSDL operation defined as follows:

```

<s:element name="GetDocumentLockStatus">
  <s:complexType>
    <s:sequence>
      <s:element name="documentUrl" type="s:string" minOccurs="1" maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
  
```

```
</s:element>
```

documentUrl: A URL which identifies a document.

3.1.4.2.2.2 GetDocumentLockStatusResponse

The following is the result data of a **GetDocumentLockStatus** WSDL operation.

```
<s:element name="GetDocumentLockStatusResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetDocumentLockStatusResult" minOccurs="1" maxOccurs="1">
        <s:complexType>
          <s:sequence>
            <s:element name="LockStatus" minOccurs="1" maxOccurs="1"/>
            <s:complexType>
              <s:sequence>
                <s:element name="Type" type="s:string" minOccurs="1" maxOccurs="1"/>
                <s:element name="User" type="s:string" minOccurs="1" maxOccurs="1"/>
              </s:sequence>
            </s:complexType>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

GetDocumentLockStatusResult: Contains a **LockStatus** element that specifies the document check out status.

Type: A string that contains the document check out status. This value is case-sensitive. This value MUST be one of the following:

- **none:** Document is not **locked**.
- **shortterm:** Document is opened in edit mode.
- **longterm:** Document is **checked out**.
- **longtermoffline:** Document is checked out to local **draft folder**.
- **error:** Error occurred.

User: A string that contains the valid user identifier of the owner of the lock. This value MUST be a positive 32-bit **integer string** when the value of **Type** element is "shortterm", "longterm", or "longtermoffline". Otherwise this value MUST be empty.

3.1.4.2.3 Complex Types

None.

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 GetIsBackwardSigning

This operation is used to get the backward signing flag which specifies whether the input content type requires backward signing and is defined as follows:

```
<wsdl:operation name="GetIsBackwardSigning">
  <wsdl:input message="GetIsBackwardSigningSoapIn" />
  <wsdl:output message="GetIsBackwardSigningSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetIsBackwardSigningSoapIn** request message, and the protocol server responds with a **GetIsBackwardSigningSoapOut** response message, as follows:

1. The protocol client asks the protocol server for the information of content type to see if it is designed for backward signing or not using the **GetIsBackwardSigning** web service method.
2. The protocol server responds with **true** if backward signing is enabled. Otherwise, it returns **false**.

The following diagram shows the exchange between the protocol client and the protocol server.

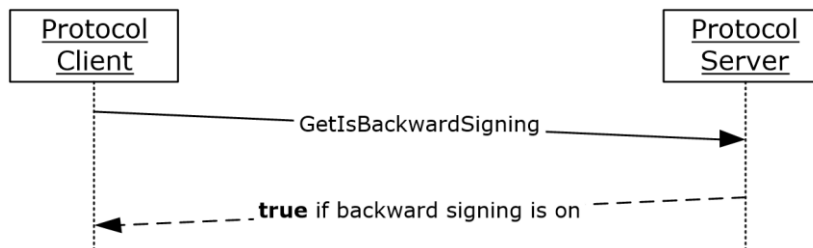


Figure 5: Retrieving information about whether backward signing is enabled

3.1.4.3.1 Messages

3.1.4.3.1.1 GetIsBackwardSigningSoapIn

A SOAP message that contains information required by the **GetIsBackwardSigning** WSDL operation that is used to call the **GetIsBackwardSigning** SOAP method.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetIsBackwardSigning
```

The SOAP body contains a **GetIsBackwardSigning** element.

3.1.4.3.1.2 GetIsBackwardSigningSoapOut

A SOAP message that contains results returned by the **GetIsBackwardSigning** WSDL operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetIsBackwardSigning
```

The SOAP body contains a **GetIsBackwardSigningResponse** element.

3.1.4.3.2 Elements

3.1.4.3.2.1 GetIsBackwardSigning

The input data of a **GetIsBackwardSigning** WSDL operation defined as follows:

```
<s:element name="GetIsBackwardSigning">
  <s:complexType>
    <s:sequence>
      <s:element name="contentTypeid" type="s:string" minOccurs="1" maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

contentTypeid: A string that contains the valid content type identifier of a document.

3.1.4.3.2.2 GetIsBackwardSigningResponse

The following is the result data of a **GetIsBackwardSigning** WSDL operation.

```
<s:element name="GetIsBackwardSigningResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetIsBackwardSigningResult" minOccurs="1" maxOccurs="1">
        <s:complexType>
          <s:sequence>
            <s:element name="IsBackwardSigning" minOccurs="1" maxOccurs="1"/>
            <s:complexType>
              <s:sequence>
                <s:element name="Value" type="s:string" minOccurs="1" maxOccurs="1"/>
              </s:sequence>
            </s:complexType>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

GetIsBackwardSigningResult: Contains a **IsBackwardSigning** element that specifies whether input content type requires backward signing or not.

Value: A string specifying if the input content type requires backward signing. The value MUST be either "True" or "False". "True" indicates that backward signing is required. "False" indicates that it is not required. This string is case-sensitive.

3.1.4.3.3 Complex Types

None.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 GetNewDocumentId

This operation is used to get the label information from the labeling policy and is defined as follows:

```
<wsdl:operation name="GetNewDocumentId">
  <wsdl:input message="GetNewDocumentIdSoapIn" />
  <wsdl:output message="GetNewDocumentIdSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetNewDocumentIdSoapIn** request message, and the protocol server responds with a **GetNewDocumentIdSoapOut** response message, as follows:

1. The protocol client asks the protocol server for the issued Group Approval document identifier of current document using the **GetNewDocumentId** web service method.
2. The protocol server responds with **LabelMetaProperty** element which includes Group Approval document identifier.

The following diagram shows the exchange between the protocol client and the protocol server.

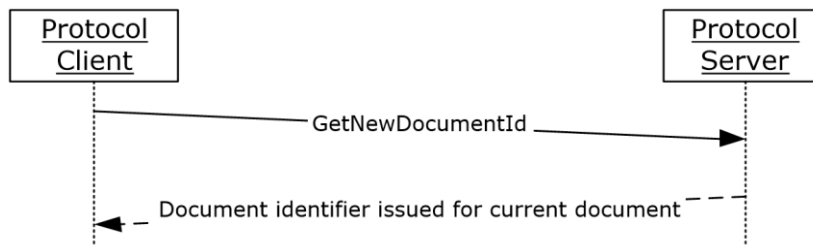


Figure 6: Retrieving a LabelMetaProperty element that includes a Group Approval document identifier

3.1.4.4.1 Messages

3.1.4.4.1.1 GetNewDocumentIdSoapIn

A SOAP message that contains information required by the **GetNewDocumentId** WSDL operation that is used to call the **GetNewDocumentId** SOAP method.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetNewDocumentId
```


The SOAP body contains a **GetNewDocumentId** element.

3.1.4.4.1.2 GetNewDocumentIdSoapOut

A SOAP message that contains results returned by the **GetNewDocumentId** WSDL operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EWorkflow/GetNewDocumentId
```

The SOAP body contains a **GetNewDocumentIdResponse** element.

3.1.4.4.2 Elements

3.1.4.4.2.1 GetNewDocumentId

The input data of a **GetNewDocumentId** WSDL operation defined as follows:

```
<s:element name="GetNewDocumentId">
  <s:complexType>
    <s:sequence>
      <s:element name="fileUrl" type="s:string" minOccurs="1" maxOccurs="1"/>
      <s:element name="orgId" type="s:int" minOccurs="1" maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

fileUrl: A URL that identifies a document on this site.

orgId: A positive 32-bit organization identifier.

3.1.4.4.2.2 GetNewDocumentIdResponse

The following is the result data of a **GetNewDocumentId** WSDL operation.

```
<s:element name="GetNewDocumentIdResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetNewDocumentIdResult" minOccurs="1" maxOccurs="1">
        <s:complexType>
          <s:sequence>
            <s:element name="LabelMetaProperty" minOccurs="1" maxOccurs="1">
              <s:complexType>
                <s:sequence>
                  <s:element name="EawfCompanyName" type="s:string" minOccurs="0"
maxOccurs="1"/>
                  <s:element name="EawfDepartment" type="s:string" minOccurs="0"
maxOccurs="1"/>
                  <s:element name="EawfDepartmentCode" type="s:string" minOccurs="0"
maxOccurs="1"/>
                  <s:element name="EawfSubmittedYear" type="s:string" minOccurs="0"
maxOccurs="1"/>
                  <s:element name="EawfSequenceNumber" type="s:string" minOccurs="0"
maxOccurs="1"/>
                  <s:any minOccurs="0" maxOccurs="unbounded" namespace="##local"/>
                  <s:element name="EawfDocumentId" type="s:string" minOccurs="1"
maxOccurs="1"/>
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

```
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

GetNewDocumentIdResult: Contains a **LabelMetaProperty** element that is vendor-extensible and can be structured as XML nodes, which are defined from a label specified in the labeling policy.

EawfCompanyName: A string that contains the root name of organizations. This value MUST NOT be empty.

EawfDepartment: A string that contains the name of an organization to which the current user belongs. This value MUST NOT be empty.

EawfDepartmentCode: A string that contains a unique **string** value that represents the organization to which the current user belongs. This value MUST NOT be empty.

EawfSubmittedYear: A string that contains the submitted year of a document for approval. This value MUST be a positive 32-bit **integer string**. This value MUST NOT be empty.

EawfSequenceNumber: A string that contains the valid **item identifier** of a document. This value MUST be a positive 32-bit **integer string**. If the **integer string** is less than five characters, this **string** MUST be padded with zeros so that it is five characters in length. This value MUST NOT be empty.

EawfDocumentId: A string that contains the Group Approval document identifier. This value MUST NOT be empty.

3.1.4.4.3 Complex Types

None.

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 GetPreferredApprovalLine

This operation is used to get the preferred approval line for a content type. A user has one associated property which specifies their preferred approval lines. The number of preferred approval lines MUST be equal to the number of content types. Preferred approval lines and content types have a one-to-one relationship. This operation is defined as follows:

```
<wsdl:operation name="GetPreferredApprovalLine">
  <wsdl:input message="GetPreferredApprovalLineSoapIn" />
```

```
<wsdl:output message="GetPreferredApprovalLineSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetPreferredApprovalLineSoapIn** request message, and the protocol server responds with a **GetPreferredApprovalLineSoapOut** response message, as follows:

1. The protocol client asks the protocol server for the information about the preferred approval line of current content type using the **GetPreferredApprovalLine** web service method.
2. The protocol server responds with the **XML** of the preferred approval line corresponding to current content type and current user.

The following diagram shows the exchange between the protocol client and the protocol server.

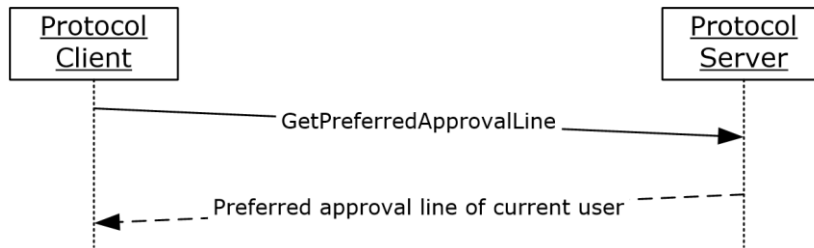


Figure 7: Retrieving the preferred approval line of the current user

3.1.4.5.1 Messages

3.1.4.5.1.1 GetPreferredApprovalLineSoapIn

A SOAP message that contains information required by the **GetPreferredApprovalLine** WSDL operation that is used to call the **GetPreferredApprovalLine** SOAP method.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetPreferredApprovalLine
```

The SOAP body contains a **GetPreferredApprovalLine** element.

3.1.4.5.1.2 GetPreferredApprovalLineSoapOut

A SOAP message that contains results returned by the **GetPreferredApprovalLine** WSDL operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetPreferredApprovalLine
```

The SOAP body contains a **GetPreferredApprovalLineResponse** element.

3.1.4.5.2 Elements

3.1.4.5.2.1 GetPreferredApprovalLine

The input data of a **GetPreferredApprovalLine** WSDL operation defined as follows:

```

<s:element name="GetPreferredApprovalLine">
  <s:complexType>
    <s:sequence>
      <s:element name="userId" type="s:int" minOccurs="1" maxOccurs="1"/>
      <s:element name="contentTypeId" type="s:string" minOccurs="1" maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>

```

userId: A positive 32-bit integer that contains the valid user identifier identifying the user for the associated preferred approval line.

contentTypeId: A string that contains the valid content type identifier of a document.

3.1.4.5.2.2 GetPreferredApprovalLineResponse

The following is the result data of a **GetPreferredApprovalLine** WSDL operation.

```

<s:element name="GetPreferredApprovalLineResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetPreferredApprovalLineResult" minOccurs="1" maxOccurs="1">
        <s:complexType>
          <s:sequence>
            <s:element name="ApprovalLine" minOccurs="0" maxOccurs="1"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>

```

GetPreferredApprovalLineResult: Contains an **ApprovalLine** element, found in [2.2.3.1](#), which specifies the preferred approval line for a content type.

3.1.4.5.3 Complex Types

None.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 GetReceivingDepartment

This operation is used to get the receiving organization for input content type and is defined as follows:

```
<wsdl:operation name="GetReceivingDepartment">
  <wsdl:input message="GetReceivingDepartmentSoapIn" />
  <wsdl:output message="GetReceivingDepartmentSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetReceivingDepartmentSoapIn** request message, and the protocol server responds with a **GetReceivingDepartmentSoapOut** response message, as follows:

1. The protocol client asks the protocol server for information about the receiving organization of the current content type using the **GetReceivingDepartment** web service method.
2. The protocol server responds with the **security group identifier** of receiving organization.

The following diagram shows the exchange between the protocol client and the protocol server.

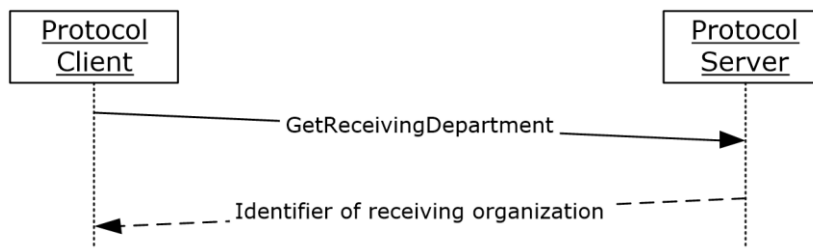


Figure 8: Retrieving the security group identifier of the receiving organization

3.1.4.6.1 Messages

3.1.4.6.1.1 GetReceivingDepartmentSoapIn

A SOAP message that contains information required by the **GetReceivingDepartment** WSDL operation that is used to call the **GetReceivingDepartment** SOAP method.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetReceivingDepartment
```

The SOAP body contains a **GetReceivingDepartment** element.

3.1.4.6.1.2 GetReceivingDepartmentSoapOut

A SOAP message that contains results returned by the **GetReceivingDepartment** WSDL operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetReceivingDepartment
```

The SOAP body contains a **GetReceivingDepartmentResponse** element.

3.1.4.6.2 Elements

3.1.4.6.2.1 GetReceivingDepartment

The input data of a **GetReceivingDepartment** WSDL operation defined as follows:

```
<s:element name="GetReceivingDepartment">
  <s:complexType>
    <s:sequence>
      <s:element name="contentTypeId" type="s:string" minOccurs="1" maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

contentTypeId: A string which contains the valid content type identifier of a document.

3.1.4.6.2.2 GetReceivingDepartmentResponse

The following is the result data of a **GetReceivingDepartment** WSDL operation.

```
<s:element name="GetReceivingDepartmentResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetReceivingDepartmentResult" minOccurs="1" maxOccurs="1">
        <s:complexType>
          <s:sequence>
            <s:element name="ReceivingDepartment" minOccurs="1" maxOccurs="1">
              <s:complexType>
                <s:sequence>
                  <s:element name="ID" type="s:string" minOccurs="1" maxOccurs="1"/>
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

GetReceivingDepartmentResult: Contains a **ReceivingDepartment** element that specifies a receiving organization for an input content type.

ID: An integer string that contains the security group identifier of the receiving organization for an input content type.

3.1.4.6.3 Complex Types

None.

3.1.4.6.4 Simple Types

None.

3.1.4.6.5 Attributes

None.

3.1.4.6.6 Groups

None.

3.1.4.6.7 Attribute Groups

None.

3.1.4.7 SetPreferredApprovalLine

This operation is used to set the preferred approval line for a content type and is defined as follows:

```
<wsdl:operation name="SetPreferredApprovalLine">
  <wsdl:input message="SetPreferredApprovalLineSoapIn" />
  <wsdl:output message="SetPreferredApprovalLineSoapOut" />
</wsdl:operation>
```

The protocol client sends a **SetPreferredApprovalLineSoapIn** request message, and the protocol server responds with a **SetPreferredApprovalLineSoapOut** response message, as follows:

1. The protocol client asks the protocol server to specify the preferred approval line of the current content type using the **SetPreferredApprovalLine** web service method.
2. The protocol server responds with **true** if successful. Otherwise, it returns **false**.

The following diagram shows the exchange between the protocol client and the protocol server.

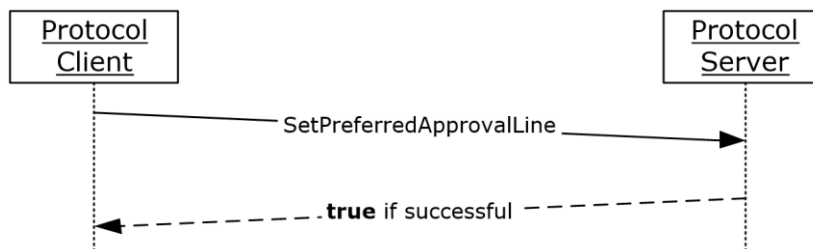


Figure 9: Updating the preferred approval line of the current content type

3.1.4.7.1 Messages

3.1.4.7.1.1 SetPreferredApprovalLineSoapIn

A SOAP message that contains information required by the **SetPreferredApprovalLine** WSDL operation that is used to call the **SetPreferredApprovalLine** SOAP method.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/SetPreferredApprovalLine
```

The SOAP body contains a **SetPreferredApprovalLine** element.

3.1.4.7.1.2 SetPreferredApprovalLineSoapOut

A SOAP message that contains results returned by the **GetPreferredApprovalLine** WSDL operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/SetPreferredApprovalLine
```

The SOAP body contains a **SetPreferredApprovalLineResponse** element.

3.1.4.7.2 Elements

3.1.4.7.2.1 SetPreferredApprovalLine

The input data of a **SetPreferredApprovalLine** WSDL operation defined as follows:

```
<s:element name="SetPreferredApprovalLine">
  <s:complexType>
    <s:sequence>
      <s:element name="userId" type="s:int" minOccurs="1" maxOccurs="1"/>
      <s:element name="contentTypeId" type="s:string" minOccurs="1" maxOccurs="1"/>
      <s:element name="approvalLineXml" type="s:string" minOccurs="1" maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

userId: A positive 32-bit integer which contains the valid user identifier identifying the user for the associated preferred approval line.

contentTypeId: A string which contains the valid content type identifier of a document.

approvalLineXml: A string representing the **ApprovalLine** element, defined in [2.2.3.1](#), which specifies the preferred approval line. All of the following characters within this value **MUST** be escaped. All other characters **MUST NOT** be escaped.

- The ampersand (&) (ASCII hexadecimal 0x26) **MUST** be represented using the string "&" (ASCII hexadecimal 0x26 0x61 0x6D 0x70 0x3B).
- The left angle bracket (<) (ASCII hexadecimal 0x3C) **MUST** be represented using the string "<" (ASCII hexadecimal 0x26 0x6C 0x74 0x3B).
- The right angle bracket (>) (ASCII hexadecimal 0x3E) **MUST** be represented using the string ">" (ASCII hexadecimal 0x26 0x67 0x74 0x3B).
- The apostrophe or single-quote character (') (ASCII hexadecimal 0x27) **MUST** be represented using the string "'" (ASCII hexadecimal 0x26 0x61 0x70 0x6F 0x73 0x3B).
- The double-quote character (") (ASCII hexadecimal 0x22) **MUST** be represented using the string """ (ASCII hexadecimal 0x26 0x71 0x75 0x6F 0x74 0x3B).

3.1.4.7.2.2 SetPreferredApprovalLineResponse

The following is the result data of a **SetPreferredApprovalLine** WSDL operation.

```
<s:element name="SetPreferredApprovalLineResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="SetPreferredApprovalLineResult" type="s:boolean" minOccurs="1"
maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

SetPreferredApprovalLineResult: A Boolean that contains whether the preferred approval line is updated successfully.

3.1.4.7.3 Complex Types

None.

3.1.4.7.4 Simple Types

None.

3.1.4.7.5 Attributes

None.

3.1.4.7.6 Groups

None.

3.1.4.7.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

4.1 GetCurrentUserFromWeb

To retrieve the current user information of a site, the protocol client sends the following SOAP message:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetCurrentUserFromWeb xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      </GetCurrentUserFromWeb>
    </soap:Body>
  </soap:Envelope>
```

The protocol server returns the current user information of a site (2) in the form of the following SOAP message:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetCurrentUserFromWebResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <GetCurrentUserFromWebResult>
        <CurrentUserFromWeb>
          <ID>17</ID>
          <LoginName>mydomain\user1</LoginName>
          <Email>user1@mydomain.com</Email>
        </CurrentUserFromWeb>
      </GetCurrentUserFromWebResult>
    </GetCurrentUserFromWebResponse>
  </soap:Body>
</soap:Envelope>
```

4.2 GetDocumentLockStatus

To retrieve the document check out status, the protocol client sends the following SOAP message:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetDocumentLockStatus
      xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <documentUrl>http://www.contoso.com/my approval/sample.docx</documentUrl>
    </GetDocumentLockStatus>
  </soap:Body>
</soap:Envelope>
```

The protocol server returns the document check out status in the form of the following SOAP message:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetDocumentLockStatusResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <GetDocumentLockStatusResult>
        <LockStatus>
```

```

        <Type>shortterm</Type>
        <User>17</User>
      </LockStatus>
    </GetDocumentLockStatusResult>
  </GetDocumentLockStatusResponse>
</soap:Body>
</soap:Envelope>

```

4.3 GetIsBackwardSigning

To retrieve the backward signing flag, the protocol client sends the following SOAP message:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetIsBackwardSigning xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <contentTypeId>0x010100BE38E8CD20424EBBA7CC1546E8BF49B7007EABF8A777E841499F4FDE601F16D0FB004D
      9949F22610BE48B0047E011A2F60F7</contentTypeId>
    </GetIsBackwardSigning>
  </soap:Body>
</soap:Envelope>

```

The protocol server returns the backward signing flag in the form of the following SOAP message:

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetIsBackwardSigningResponse
xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <GetIsBackwardSigningResult>
        <IsBackwardSigning>
          <Value>True</Value>
        </IsBackwardSigning>
      </GetIsBackwardSigningResult>
    </GetIsBackwardSigningResponse>
  </soap:Body>
</soap:Envelope>

```

4.4 GetNewDocumentId

To retrieve the label information, the protocol client sends the following SOAP message:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetNewDocumentId xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <fileUrl>http://www.contoso.com/my approval/sample.docx</fileUrl>
      <orgId>34</orgId>
    </GetNewDocumentId>
  </soap:Body>
</soap:Envelope>

```

The protocol server returns the label information in the form of the following SOAP message:

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">

```

```

<soap:Body>
  <GetNewDocumentIdResponse
    xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
    <GetNewDocumentIdResult>
      <LabelMetaProperty>
        <EawfCompanyName>Contoso</EawfCompanyName>
        <EawfDepartmentCode>RND</EawfDepartmentCode>
        <EawfSubmittedYear>2008</EawfSubmittedYear>
        <EawfSequenceNumber>00039</EawfSequenceNumber>
        <EawfDocumentId> Contoso-RND-2008-00039</EawfDocumentId>
      </LabelMetaProperty>
    </GetNewDocumentIdResult>
  </GetNewDocumentIdResponse>
</soap:Body>
</soap:Envelope>

```

4.5 GetPreferredApprovalLine

To retrieve the preferred approval line information for an input content type, the protocol client sends the following SOAP message:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetPreferredApprovalLine
      xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <userId>22</userId>

      <contentTypeId>0x010100BE38E8CD20424EBBA7CC1546E8BF49B7007EABF8A777E841499F4FDE601F16D0FB004D
      9949F22610BE48B0047E011A2F60F7</contentTypeId>
    </GetPreferredApprovalLine>
  </soap:Body>
</soap:Envelope>

```

The protocol server returns the preferred approval line information for an input content type in the form of the following SOAP message:

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetPreferredApprovalLineResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <GetPreferredApprovalLineResult>
        <ApprovalLine
          ContentTypeId="0x010100BE38E8CD20424EBBA7CC1546E8BF49B7007EABF8A777E841499F4FDE601F16D0FB004D
          9949F22610BE48B0047E011A2F60F7">
            <Participant>
              <ID>22</ID>
              <Type>Person</Type>
              <Order>0</Order>
              <ApprovalType>Normal</ApprovalType>
              <Department>16</Department>
            </Participant>
            <Participant>
              <ID>18</ID>
              <Type>Person</Type>
              <Order>1</Order>
              <ApprovalType>Normal</ApprovalType>
              <Department>16</Department>
            </Participant>
            <Participant>
              <ID>19</ID>

```

```

        <Type>Person</Type>
        <Order>2</Order>
        <ApprovalType>Normal</ApprovalType>
        <Department>16</Department>
    </Participant>
    <Participant>
        <ID>
</ID>
        <Type>Empty</Type>
        <Order>3</Order>
        <ApprovalType>Normal</ApprovalType>
        <Department>
</Department>
    </Participant>
</ApprovalLine>
</GetPreferredApprovalLineResult>
</GetPreferredApprovalLineResponse>
</soap:Body>
</soap:Envelope>

```

4.6 GetReceivingDepartment

To retrieve the receiving organization for an input content type, the protocol client sends the following SOAP message:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetReceivingDepartment xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <contentTypeId>0x010100BE38E8CD20424EBBA7CC1546E8BF49B7007EABF8A777E841499F4FDE601F16D0FB004D
      9949F22610BE48B0047E011A2F60F7</contentTypeId>
    </GetReceivingDepartment>
  </soap:Body>
</soap:Envelope>

```

The protocol server returns the receiving organization for an input content type in the form of the following SOAP message:

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetReceivingDepartmentResponse
xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <GetReceivingDepartmentResult>
        <ReceivingDepartment>
          <ID>16</ID>
        </ReceivingDepartment>
      </GetReceivingDepartmentResult>
    </GetReceivingDepartmentResponse>
  </soap:Body>
</soap:Envelope>

```

4.7 SetPreferredApprovalLine

To specify the preferred approval line information for an input content type, the protocol client sends the following SOAP message:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

```

```

<soap:Body>
  <SetPreferredApprovalLine
    xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
    <userId>22</userId>

    <contentTypeId>0x010100BE38E8CD20424EBBA7CC1546E8BF49B7007EABF8A777E841499F4FDE601F16D0FB004D
    9949F22610BE48B0047E011A2F60F7</contentTypeId>
    <approvalLineXml>&lt;ApprovalLine
      ContentTypeId=&quot;0x010100BE38E8CD20424EBBA7CC1546E8BF49B7007EABF8A777E841499F4FDE601F16D0F
      B004D9949F22610BE48B0047E011A2F60F7&quot;&gt;&lt;&lt;Participant&gt;&lt;ID&gt;22&lt;/ID&gt;&lt;Ty
      pe&gt;Person&lt;/Type&gt;&lt;Order&gt;0&lt;/Order&gt;&lt;ApprovalType&gt;Normal&lt;/ApprovalT
      ype&gt;&lt;Department&gt;34&lt;/Department&gt;&lt;/Participant&gt;&lt;Participant&gt;&lt;ID&gt;
      18&lt;/ID&gt;&lt;Type&gt;Person&lt;/Type&gt;&lt;Order&gt;1&lt;/Order&gt;&lt;ApprovalType&gt;
      Normal&lt;/ApprovalType&gt;&lt;Department&gt;16&lt;/Department&gt;&lt;/Participant&gt;&lt;Pa
      rticipant&gt;&lt;ID&gt;&lt;/ID&gt;&lt;Type&gt;Empty&lt;/Type&gt;&lt;Order&gt;2&lt;/Order&gt;&
      lt;ApprovalType&gt;Normal&lt;/ApprovalType&gt;&lt;Department&gt;&lt;/Department&gt;&lt;/Parti
      cipant&gt;&lt;Participant&gt;&lt;ID&gt;&lt;/ID&gt;&lt;Type&gt;Empty&lt;/Type&gt;&lt;Order&gt;
      3&lt;/Order&gt;&lt;ApprovalType&gt;Normal&lt;/ApprovalType&gt;&lt;Department&gt;&lt;/Departme
      nt&gt;&lt;/Participant&gt;&lt;/ApprovalLine&gt;</approvalLineXml>
    </SetPreferredApprovalLine>
  </soap:Body>
</soap:Envelope>

```

The protocol server returns Boolean value specifying whether the preferred approval line is updated in the form of the following SOAP message:

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetPreferredApprovalLineResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <SetPreferredApprovalLineResult>true</SetPreferredApprovalLineResult>
    </SetPreferredApprovalLineResponse>
  </soap:Body>
</soap:Envelope>

```

5 Security

5.1 Security Considerations for Implementers

This protocol introduces no additional security considerations beyond those applicable to its underlying protocols.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided, as follows:

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/"
xmlns:s="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
targetNamespace="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/">
      <s:import namespace="http://www.w3.org/2001/XMLSchema" />
      <s:element name="GetNewDocumentId">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="fileUrl" type="s:string" />
            <s:element minOccurs="1" maxOccurs="1" name="orgId" type="s:int" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="GetNewDocumentIdResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="GetNewDocumentIdResult">
              <s:complexType>
                <s:sequence>
                  <s:element minOccurs="1" maxOccurs="1" name="LabelMetaProperty">
                    <s:complexType>
                      <s:sequence>
                        <s:element name="EawfCompanyName" type="s:string" minOccurs="0"
maxOccurs="1" />
                        <s:element name="EawfDepartment" type="s:string" minOccurs="0"
maxOccurs="1" />
                        <s:element name="EawfDepartmentCode" type="s:string" minOccurs="0"
maxOccurs="1" />
                        <s:element name="EawfSubmittedYear" type="s:string" minOccurs="0"
maxOccurs="1" />
                        <s:element name="EawfSequenceNumber" type="s:string" minOccurs="0"
maxOccurs="1" />
                        <s:any minOccurs="0" maxOccurs="unbounded" namespace="##local" />
                        <s:element name="EawfDocumentId" type="s:string" minOccurs="1"
maxOccurs="1" />
                      </s:sequence>
                    </s:complexType>
                  </s:element>
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="GetCurrentUserFromWeb">
        <s:complexType />
      </s:element>
      <s:element name="GetCurrentUserFromWebResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="GetCurrentUserFromWebResult">
              <s:complexType>
                <s:sequence>
                  <s:element minOccurs="1" maxOccurs="1" name="CurrentUserFromWeb">
                    <s:complexType>
                      <s:sequence>
                        <s:element name="ID" type="s:string" minOccurs="1" maxOccurs="1" />
                      </s:sequence>
                    </s:complexType>
                  </s:element>
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:schema>
  </wsdl:types>

```



```

maxOccurs="1" />
    <s:element name="LoginName" type="s:string" minOccurs="1"
/>
    <s:element name="Email" type="s:string" minOccurs="1" maxOccurs="1"
/>
        </s:sequence>
        </s:complexType>
    </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetPreferredApprovalLine">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="userId" type="s:int" />
            <s:element minOccurs="1" maxOccurs="1" name="contentTypeId" type="s:string" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetPreferredApprovalLineResponse">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="GetPreferredApprovalLineResult">
                <s:complexType>
                    <s:sequence>
                        <s:element name="ApprovalLine" minOccurs="0" maxOccurs="1">
                            <s:complexType>
                                <s:sequence>
                                    <s:element name="Participant" minOccurs="1" maxOccurs="unbounded">
                                        <s:complexType>
                                            <s:sequence>
                                                <s:element name="ID" type="s:string" minOccurs="1"
maxOccurs="1" />
                                                <s:element name="Type" type="s:string" minOccurs="1"
maxOccurs="1" />
                                                <s:element name="Order" type="s:string" minOccurs="1"
maxOccurs="1" />
                                                <s:element name="ApprovalType" type="s:string" minOccurs="1"
maxOccurs="1" />
                                                <s:element name="Department" type="s:string" minOccurs="1"
maxOccurs="1" />
                                            </s:sequence>
                                        </s:complexType>
                                    </s:element>
                                </s:sequence>
                            </s:complexType>
                        </s:element>
                    </s:sequence>
                </s:complexType>
            </s:element>
            <s:attribute name="ContentTypeId" type="s:string" use="required" />
        </s:complexType>
    </s:element>
</s:sequence>
</s:complexType>
</s:element>
<s:element name="SetPreferredApprovalLine">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="userId" type="s:int" />
            <s:element minOccurs="1" maxOccurs="1" name="contentTypeId" type="s:string" />
            <s:element minOccurs="1" maxOccurs="1" name="approvalLineXml" type="s:string" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="SetPreferredApprovalLineResponse">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="SetPreferredApprovalLineResult"
type="s:boolean" />
        </s:sequence>
    </s:complexType>
</s:element>

```

```

    </s:complexType>
  </s:element>
  <s:element name="GetReceivingDepartment">
    <s:complexType>
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      </s:sequence>
    </s:complexType>
  </s:element>
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    <s:complexType>
      <s:sequence>
        <s:element minOccurs="1" maxOccurs="1" name="GetReceivingDepartmentResult">
          <s:complexType>
            <s:sequence>
              <s:element name="ReceivingDepartment" minOccurs="1" maxOccurs="1">
                <s:complexType>
                  <s:sequence>
                    <s:element name="ID" type="s:string" minOccurs="1" maxOccurs="1" />
                  </s:sequence>
                </s:complexType>
              </s:element>
            </s:sequence>
          </s:complexType>
        </s:element>
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetIsBackwardSigning">
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      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetIsBackwardSigningResponse">
    <s:complexType>
      <s:sequence>
        <s:element minOccurs="1" maxOccurs="1" name="GetIsBackwardSigningResult">
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            <s:sequence>
              <s:element name="IsBackwardSigning" minOccurs="1" maxOccurs="1">
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                  <s:sequence>
                    <s:element name="Value" type="s:string" minOccurs="1" maxOccurs="1" />
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              </s:element>
            </s:sequence>
          </s:complexType>
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      </s:sequence>
    </s:complexType>
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  <s:element name="GetDocumentLockStatus">
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      <s:sequence>
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    </s:complexType>
  </s:element>
  <s:element name="GetDocumentLockStatusResponse">
    <s:complexType>
      <s:sequence>
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            <s:sequence>
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                  <s:sequence>
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                    <s:element name="User" type="s:string" minOccurs="1" maxOccurs="1" />
                  </s:sequence>
                </s:complexType>
              </s:element>
            </s:sequence>
          </s:complexType>
        </s:element>
      </s:sequence>
    </s:complexType>
  </s:element>

```

```

        </s:complexType>
    </s:element>
</s:sequence>
</s:complexType>
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</s:sequence>
</s:complexType>
</s:element>
</s:schema>
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    <wsdl:part name="parameters" element="tns:GetNewDocumentId" />
</wsdl:message>
<wsdl:message name="GetNewDocumentIdSoapOut">
    <wsdl:part name="parameters" element="tns:GetNewDocumentIdResponse" />
</wsdl:message>
<wsdl:message name="GetCurrentUserFromWebSoapIn">
    <wsdl:part name="parameters" element="tns:GetCurrentUserFromWeb" />
</wsdl:message>
<wsdl:message name="GetCurrentUserFromWebSoapOut">
    <wsdl:part name="parameters" element="tns:GetCurrentUserFromWebResponse" />
</wsdl:message>
<wsdl:message name="GetPreferredApprovalLineSoapIn">
    <wsdl:part name="parameters" element="tns:GetPreferredApprovalLine" />
</wsdl:message>
<wsdl:message name="GetPreferredApprovalLineSoapOut">
    <wsdl:part name="parameters" element="tns:GetPreferredApprovalLineResponse" />
</wsdl:message>
<wsdl:message name="SetPreferredApprovalLineSoapIn">
    <wsdl:part name="parameters" element="tns:SetPreferredApprovalLine" />
</wsdl:message>
<wsdl:message name="SetPreferredApprovalLineSoapOut">
    <wsdl:part name="parameters" element="tns:SetPreferredApprovalLineResponse" />
</wsdl:message>
<wsdl:message name="GetReceivingDepartmentSoapIn">
    <wsdl:part name="parameters" element="tns:GetReceivingDepartment" />
</wsdl:message>
<wsdl:message name="GetReceivingDepartmentSoapOut">
    <wsdl:part name="parameters" element="tns:GetReceivingDepartmentResponse" />
</wsdl:message>
<wsdl:message name="GetIsBackwardSigningSoapIn">
    <wsdl:part name="parameters" element="tns:GetIsBackwardSigning" />
</wsdl:message>
<wsdl:message name="GetIsBackwardSigningSoapOut">
    <wsdl:part name="parameters" element="tns:GetIsBackwardSigningResponse" />
</wsdl:message>
<wsdl:message name="GetDocumentLockStatusSoapIn">
    <wsdl:part name="parameters" element="tns:GetDocumentLockStatus" />
</wsdl:message>
<wsdl:message name="GetDocumentLockStatusSoapOut">
    <wsdl:part name="parameters" element="tns:GetDocumentLockStatusResponse" />
</wsdl:message>
<wsdl:portType name="EAWorkflowSoap">
    <wsdl:operation name="GetNewDocumentId">
        <wsdl:input message="tns:GetNewDocumentIdSoapIn" />
        <wsdl:output message="tns:GetNewDocumentIdSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="GetCurrentUserFromWeb">
        <wsdl:input message="tns:GetCurrentUserFromWebSoapIn" />
        <wsdl:output message="tns:GetCurrentUserFromWebSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="GetPreferredApprovalLine">
        <wsdl:input message="tns:GetPreferredApprovalLineSoapIn" />
        <wsdl:output message="tns:GetPreferredApprovalLineSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="SetPreferredApprovalLine">
        <wsdl:input message="tns:SetPreferredApprovalLineSoapIn" />
        <wsdl:output message="tns:SetPreferredApprovalLineSoapOut" />
    </wsdl:operation>
</wsdl:portType>

```

```

<wsdl:operation name="GetReceivingDepartment">
  <wsdl:input message="tns:GetReceivingDepartmentSoapIn" />
  <wsdl:output message="tns:GetReceivingDepartmentSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetIsBackwardSigning">
  <wsdl:input message="tns:GetIsBackwardSigningSoapIn" />
  <wsdl:output message="tns:GetIsBackwardSigningSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetDocumentLockStatus">
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  <wsdl:output message="tns:GetDocumentLockStatusSoapOut" />
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="EAWorkflowSoap" type="tns:EAWorkflowSoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
  <wsdl:operation name="GetNewDocumentId">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetNewDocumentId"
style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetCurrentUserFromWeb">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetCurrentUserFromWeb"
style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetPreferredApprovalLine">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetPreferredApprovalLine"
style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="SetPreferredApprovalLine">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/SetPreferredApprovalLine"
style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetReceivingDepartment">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetReceivingDepartment"
style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>

```

```

    </wsdl:operation>
    <wsdl:operation name="GetIsBackwardSigning">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetIsBackwardSigning"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetDocumentLockStatus">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetDocumentLockStatus"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:binding name="EAWorkflowSoap12" type="tns:EAWorkflowSoap">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="GetNewDocumentId">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetNewDocumentId"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetCurrentUserFromWeb">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetCurrentUserFromWeb"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetPreferredApprovalLine">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetPreferredApprovalLine"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetPreferredApprovalLine">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/SetPreferredApprovalLine"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>

```

```

    </wsdl:operation>
    <wsdl:operation name="GetReceivingDepartment">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetReceivingDepartment"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetIsBackwardSigning">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetIsBackwardSigning"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetDocumentLockStatus">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/EAWorkflow/GetDocumentLockStatus"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
</wsdl:definitions>

```

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.

- Microsoft Office SharePoint Server 2007 CHT, CHS, KOR, JPN LANGPAK
- Microsoft SharePoint Server 2010 JPN, KOR, CHT, CHS LANGPAK

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.

8 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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