[MS-WORDSWCF]:

Word Automation Services WCF Service Protocol

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1 Introduction

The Word Automation Services WCF Service Protocol is used to convert documents from one file format to another file format.

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:

bookmark: An entity that is used in a document to denote the beginning and ending character positions of specific text in the document, and optionally, metadata about that text or its relationship to other referenced parts of the document.

Boolean: An operation or expression that can be evaluated only as either true or false.

conversion group: A data structure that contains information about one or more **conversion items** in a conversion job. The items are organized into a hierarchy that is based on input and output path values for the conversion items.

conversion item: A data structure that contains information about operations to convert a file from one file format to another. This information includes a unique identifier for the conversion item and the location of the source file to convert.

conversion job: A data structure that contains information about one or more **conversion items** or conversion groups that are associated with it. This information includes preferred settings for conversion operations to be performed for the conversion items that it contains.

Coordinated Universal Time (UTC): A high-precision atomic time standard that approximately tracks Universal Time (UT). It is the basis for legal, civil time all over the Earth. Time zones around the world are expressed as positive and negative offsets from UTC. In this role, it is also referred to as Zulu time (Z) and Greenwich Mean Time (GMT). In these specifications, all references to UTC refer to the time at UTC-0 (or GMT).

culture name: A part of a language identification tagging system, as described in [RFC1766]. Culture names adhere to the format "<languagecode2>-<country/regioncode2>." If a two-letter language code is not available, a three-letter code that is derived from [ISO-639] is used.

dictionary: A collection of key/value pairs. Each pair consists of a unique key and an associated value. Values in the dictionary are retrieved by providing a key for which the dictionary returns the associated value.

document property: A name/value pair that serves as metadata for a document.

document template: A file that serves as the basis for new documents.

external group: A group whose membership is controlled by an external component, such as an Active Directory Domain Services (AD DS) domain group or a role that is managed by a role provider in ASP.NET.

field: A discrete unit of a record that has a name, a data type, and a value.

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

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[RFC4122] or [C706] must be used for generating the **GUID**. See also universally unique identifier (UUID).

immediate conversion job: A **conversion job** that contains only one **conversion item** and is intended to be executed as a higher priority than a typical conversion job.

macro: A set of instructions that are recorded or written, and then typically saved to a file. When a macro is run, all of the instructions are performed automatically.

partition: An area within a shared services database, such as an area that isolates different tenants within a service, or the process of creating such an area in a shared services database.

Portable Document Format (PDF): An Adobe Systems specification for electronic documents that use the Adobe Acrobat family of servers and readers. PDF-format files have a .pdf file name extension.

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.

SystemID: A binary identifier that is used to uniquely identify a security principal. For Windows integrated authentication, it is a security identifier (SID). For an ASP.NET Forms Authentication provider, it is the binary representation that is derived from a combination of the provider name and the user login name.

template: A file that contains pre-defined formatting including layout, text and graphics. It serves as the basis for new documents that have a similar look or purpose. See also form template (Microsoft InfoPath) and site template (SharePoint Products and Technologies).

thumbnail: A miniature version of an image that is typically used to browse multiple images quickly.

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].

version control: The establishment and maintenance of baselines for documents or list items, and the identification of changes to those baselines. Version control makes it possible to return to a previous baseline. See also major version and minor version.

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.

WSDL message: An abstract, typed definition of the data that is communicated during a **WSDL operation** [WSDL]. Also, an element that describes the data being exchanged between web service providers and clients.

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 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

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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 namespace prefix: An abbreviated form of an **XML namespace**, as described in [XML].

XML Paper Specification (XPS): An XML-based document format. **XML Paper Specification (XPS)** specifies the set of conventions for the use of XML and other widely available technologies to describe the content and appearance of paginated documents. For more information, see [MSFT-XMLPAPER].

XML schema: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by XML itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

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.

[MS-WSSFO2] Microsoft Corporation, "Windows SharePoint Services (WSS): File Operations Database Communications Version 2 Protocol".

[MS-WSSFO3] Microsoft Corporation, "Windows SharePoint Services (WSS): File Operations Database Communications Version 3 Protocol".

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

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[WSA1.0] Gudgin, M., Hadley, M., Rogers, T., et al., Eds., "Web Services Addressing 1.0 - WSDL Binding", W3C Candidate Recommendation, May 2006, http://www.w3.org/TR/2006/CR-ws-addr-wsdl-20060529/

[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/

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/

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1.2.2 Informative References

[ECMA-376] ECMA International, "Office Open XML File Formats", 1st Edition, ECMA-376, December 2006, http://www.ecma-international.org/publications/standards/Ecma-376.htm

[ISO-19005-1] International Organization for Standardization (ISO), "Document management -- Electronic document file format for long-term preservation -- Part 1: Use of PDF 1.4 (PDF/A-1)", 2005, http://www.iso.org/iso/catalogue_detail?csnumber=38920

Note There is a charge to download this item.

[ISO/IEC29500-1:2011] ISO/IEC, "Information Technology -- Document description and processing languages -- Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference", ISO/IEC 29500-1:2011, 2011, http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=59575

[ISO/IEC29500-4:2011] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 4: Transitional Migration Features", ISO/IEC 29500-4:2011, 2011, http://www.iso.org/iso/home/store/catalogue_ics/catalogue_detail_ics.htm?csnumber=59578

[MS-DOCX] Microsoft Corporation, "Word Extensions to the Office Open XML (.docx) File Format".

[MS-DOC] Microsoft Corporation, "Word (.doc) Binary File Format".

[MS-OFFMACRO2] Microsoft Corporation, "Office Macro-Enabled File Format Version 2".

[MS-OFFMACRO] Microsoft Corporation, "Office Macro-Enabled File Format".

[MSDN-Office2003XMLSchemas] Microsoft Corporation, "Office 2003: XML Reference Schemas", Download Center, http://www.microsoft.com/en-us/download/details.aspx?id=101

[MSFT-RTF] Microsoft Corporation, "Rich Text Format (RTF) Specification", version 1.9.1, March 2008, http://www.microsoft.com/en-us/download/details.aspx?id=10725

[MSFT-XPS] Microsoft Corporation, "XML Paper Specification", Version 1.0, http://www.microsoft.com/whdc/xps/xpsspec.mspx

[RFC2557] Palme, J., Hopmann, A., and Shelness, N., "MIME Encapsulation of Aggregate Documents, such as HTML (MHTML)", RFC 2557, March 1999, http://www.rfc-editor.org/rfc/rfc2557.txt

1.3 Protocol Overview (Synopsis)

This protocol allows a protocol client to create and manage a persistent queue of document conversions. It also allows the protocol client to initiate the conversion of documents in the queue from one file format to another file format. The protocol server maintains the queue and initiates conversions based on requests from a protocol client.

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 that is used by the protocol:

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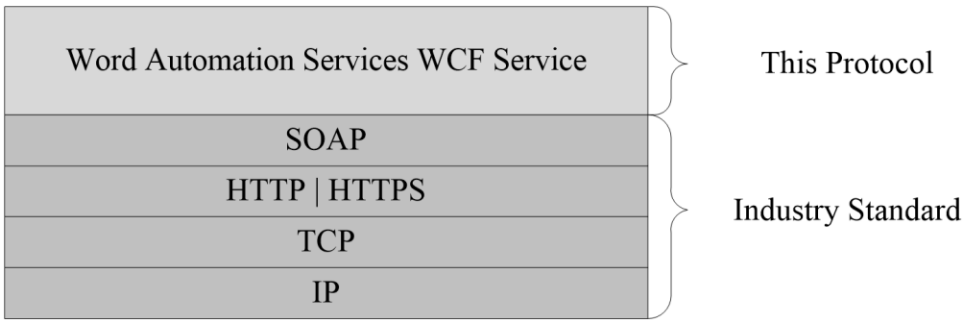

Figure 1: This protocol in relation to underlying messaging and transport stack protocols

Although the protocol server processes requests from the protocol client to create and manage a queue of **conversion jobs**, this protocol does not specify the method used by the protocol server to store the queue. Additionally, although the protocol server initiates the conversion of **conversion items** within the queue, this protocol does not specify the storage method of the input and output files.

1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more endpoint URIs that are known by protocol clients. The endpoint URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [MS-SPTWS].

The protocol client obtains the requisite ApplicationClassId and ApplicationVersion values and the endpoint URI of the protocol server that provides the discovery mechanism, as described in [MS-SPTWS], by means that are independent of either protocol.

This protocol requires the protocol client to have permission to call the methods on the protocol server.

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [MS-SPSTWS].

This protocol assumes that the protocol client provides the input file and output file locations of a **conversion item** as **URLs** that are in a format that is understood by the protocol server.

1.6 Applicability Statement

This protocol is intended for use by protocol clients and protocol servers that are connected by high-bandwidth, low-latency network connections.

The protocol was designed to enable a protocol client to communicate with a protocol server to manage a queue of **conversion jobs** and initiates document conversions from one file format to another. The protocol server only performs actions in response to a request from the protocol client, which:

- Creates conversion jobs.
- Cancels conversion jobs.
- Provides access to the status of conversion jobs.
- Initiates the conversion of conversion items.

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1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports**: This protocol can be implemented by using transports that support sending Simple Object Access Protocol (SOAP) messages, as described in section 2.1.
- **Protocol Versions**: This protocol is not versioned.

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

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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 or HTTPS.

All protocol messages MUST be transported by using HTTP bindings at the transport level.

Protocol messages MUST be formatted as specified in either [SOAP1.1] section 4 or [SOAP1.2/1] section 5. Protocol server faults MUST be returned by using either HTTP status codes, as specified in [RFC2616] section 10, or SOAP faults, as specified in [SOAP1.1] section 4.4 or [SOAP1.2/1] section 5.4.

If the HTTPS transport is used, a server certificate MUST be deployed.

This protocol MAY transmit an additional SOAP header, the **ServiceContex**t header, as specified in [MS-SPSTWS].

This protocol does not define any means for activating a protocol server or protocol client. The protocol server MUST be configured and begin listening in an implementation-specific way. In addition, the protocol client MUST know the format and transport that is used by the protocol server, for example, the SOAP format over an HTTP transport.

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema**, as specified in [XMLSCHEMA1] and [XMLSCHEMA2], and **WSDL**, as specified 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 specific **XML namespace prefix** for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
q1	http://schemas.microsoft.com/office/server/word/2009/08/ping	
q2	http://schemas.microsoft.com/office/server/word/2009/08/ping/response	
q3	http://schemas.microsoft.com/office/server/word/2009/08/cancelJob	
q4	http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response	
q5	http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus	
q6	http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response	

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Prefix	Namespace URI	Reference
q7	http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus	
q8	http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response	
q9	http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob	
q10	http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response	
q11	http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob	
q12	http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/response	
q13	http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes	
q14	http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/response	
q15	http://schemas.microsoft.com/office/server/word/2009/08/addJob	
q16	http://schemas.microsoft.com/2003/10/Serialization/	
q17	http://schemas.microsoft.com/office/server/word/2009/08/addGroup	
q18	http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response	
q19	http://schemas.microsoft.com/office/server/word/2009/08/addItems	
q20	http://schemas.microsoft.com/office/server/word/2009/08/getItems/response	
q21	http://schemas.microsoft.com/office/server/word/2009/08/submitJob	
q22	http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response	
q23	http://schemas.microsoft.com/office/server/word/2009/08/getJobs	
q24	http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response	
q25	http://schemas.microsoft.com/office/server/word/2009/08/getGroups	
q26	http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response	
q27	http://schemas.microsoft.com/office/server/word/2009/08/getItems	
q28	http://schemas.datacontract.org/2004/07/System	
q29	http://schemas.microsoft.com/office/server/word/2009/08/convertBatch	
q30	http://schemas.microsoft.com/office/server/word/2009/08/getId	
q31	http://schemas.microsoft.com/office/server/word/2009/08/getId/response	
q32	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
q33	http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://schemas.microsoft.com/office/server/word/2009/08/service	
tns1	http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions	

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Prefix	Namespace URI	Reference
tns2	http://schemas.microsoft.com/office/server/word/2009/08/service/Imports	
wsaw	http://www.w3.org/2006/05/addressing/wsdl	[WSA1.0]
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]

2.2.2 Messages

This specification does not define any common **WSDL message** definitions.

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
GroupId	Uniquely identifies a **conversion group** within a **conversion job**.
JobId	Uniquely identifies a conversion job.
PartitionId	Identifies the **partition** of a conversion job.
UserToken	Represents user credentials.

This specification does not define any common **XML schema** element definitions.

2.2.3.1 GroupId

The **GroupId** element contains a 2-byte, signed integer value that identifies a **conversion group** within a **conversion job**, as follows:

- The value MUST be a non-negative integer.
- The value MUST be less than 32,768.
- The protocol client MUST specify a unique value for each conversion group within the same conversion job.

```
<xs:element minOccurs="0" name="GroupId" type="xs:short"/>
```

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2.2.3.2 JobId

The **JobId** element contains an 8-byte, unsigned integer value that uniquely identifies a **conversion job**. The protocol client MUST specify a unique 8-byte value for each conversion job.

```
<xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
```

2.2.3.3 PartitionId

The **PartitionId** element contains a **guid** (section 2.2.5.5) value identifying the **partition** of a **conversion job**.

```
<xs:element minOccurs="0" name="PartitionId" nillable="true"
xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/" type="tns2:guid"/>
```

2.2.3.4 UserToken

The **UserToken** element is a variable-length structure that represents a user, encoded as a **base64Binary** value. This structure specifies the **SystemID** for the user and the **external groups** of which the user is a member

```
<xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
```

The following table specifies the binary format of the user token.

0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1
Time																															
...																															
Size																															
Magic1																															
AuthenticationType																															
UserSystemIdSize																															
TokenGroupsSize																															
Magic2																															
UserSystemId (variable)																															
...																															
TokenGroups (variable)																															

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...

Time (8 bytes): An 8-byte, unsigned integer value specifying the time that this token was generated, stored as seconds since midnight, January 1, 1899, **Coordinated Universal Time (UTC)**.

Size (4 bytes): A 4-byte, unsigned integer value specifying the length of the **UserToken** structure in bytes.

Magic1 (4 bytes): A 4-byte, unsigned integer specifying the version of the **UserToken** structure. This version of the protocol MUST always use the value 0xEAEBEEEF.

AuthenticationType (4 bytes): A 4-byte, unsigned integer value specifying the authentication provider for the SystemID in the **UserSystemId** field. The following table specifies the allowable values for this field.

Value	Meaning
0x00000001	Windows Integrated Authentication
0x00000003	ASP.NET Forms-based Authentication

UserSystemIdSize (4 bytes): A 4-byte, unsigned integer value specifying the length of the **UserSystemId** field in bytes.

TokenGroupsSize (4 bytes): A 4-byte, unsigned integer value specifying the length in bytes of the **TokenGroups** field.

Magic2 (4 bytes): A 4-byte, unsigned integer specifying the version of the **UserToken** structure. This version of the protocol MUST always use the value 0xDADBDEDF.

UserSystemId (variable): A variable-length field containing the serialized binary SystemID for the user. The length of this field is specified in the **UserSystemIdSize** field.

TokenGroups (variable): A variable-length field containing a Token Groups structure ([MS-WSSFO2] section 2.2.4.4), or ([MS-WSSFO3] section 2.2.3.4), which contains serialized binary SystemIDs for the external groups of which the user is a member. The length of this field is specified in the **TokenGroupsSize** field.

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
ArrayOfstring	The **ArrayOfstring** complex type represents an array of arbitrary string values.
ConversionJobSettings	The **ConversionJobSettings** complex type specifies a collection of preferred settings for all **conversion items** within a **conversion job**.
FixedFormatSettings	The **FixedFormatSettings** complex type specifies a collection of preferred settings for the output file all conversion items within a conversion job that has a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.
ReadOnlyFault	The **ReadOnlyFault** complex type specifies a fault which indicates that the protocol server could not complete a request because the storage used for conversion jobs, **conversion groups**, and conversion items is in read-only mode.<1>

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2.2.4.1 ArrayOfstring

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfstring** complex type represents an array of arbitrary string values.

```
<xs:complexType name="ArrayOfstring" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

string: A single string value.

2.2.4.2 ConversionJobSettings

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings

The **ConversionJobSettings** complex type specifies a collection of preferred settings for all **conversion items** within a **conversion job**.

```
<xs:complexType name="ConversionJobSettings" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="AddThumbnail" type="xs:boolean"/>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="CompatibilityMode" type="tns1:CompatibilityMode"/>
    <xs:element minOccurs="0" name="DefaultLanguageId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="DoNotEmbedSystemFonts" type="xs:boolean"/>
    <xs:element minOccurs="0" name="EmbedFonts" type="xs:boolean"/>
    <xs:element minOccurs="0" name="FixedFormatSettings" nillable="true"
type="q33:FixedFormatSettings"/>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="MarkupView" type="tns1:MarkupTypes"/>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="OutputFormat" type="tns1:SaveFormat"/>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="OutputSaveBehavior" type="tns1:SaveBehavior"/>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="RevisionState" type="tns1:RevisionState"/>
    <xs:element minOccurs="0" name="SubsetEmbeddedFonts" type="xs:boolean"/>
    <xs:element minOccurs="0" name="UpdateFields" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

AddThumbnail: A **Boolean** value that specifies a preference to save the output file of a conversion item with an added **thumbnail**.

CompatibilityMode: A **CompatibilityMode** (section 2.2.5.2) value that specifies the preferred compatibility mode of the output file of a conversion item.

DefaultLanguageId: A string value that specifies the preferred **culture name** to use when resolving language-dependent ambiguities when saving the output file of a conversion item.

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DoNotEmbedSystemFonts: A Boolean value that specifies a preference for common fonts to not be saved within the output file of a conversion item.

EmbedFonts: A Boolean value that specifies a preference for fonts used within the document to be obfuscated and saved within the output file of a conversion item.

FixedFormatSettings: A **FixedFormatSettings** (section 2.2.4.3) element that specifies a collection of preferred settings for all conversion items within a conversion job that has a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.

MarkupView: A **MarkupTypes** (section 2.2.5.6) value that specifies the preferred markup types in the output file of a conversion item.

OutputFormat: A **SaveFormat** (section 2.2.5.9) value that specifies the preferred file format of the output file of a conversion item.

OutputSaveBehavior: A **SaveBehavior** (section 2.2.5.8) value that specifies the preferred overwrite behavior of the output file of a conversion item when the output file already exists.

RevisionState: A **RevisionState** (section 2.2.5.7) value that specifies the preferred visibility of revision marking and comments in the output file of a conversion item.

SubsetEmbeddedFonts: A Boolean value that specifies a preference to only save characters required for a document when saving embedded fonts in the output file of a conversion item.

UpdateFields: A Boolean value that specifies a preference to automatically update **fields** when saving the output file of a conversion item.

2.2.4.3 FixedFormatSettings

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings

The **FixedFormatSettings** complex type specifies a collection of preferred settings for the output file all **conversion items** within a **conversion job** that has a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.

```
<xs:complexType name="FixedFormatSettings" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="BalloonState" type="tns1:BalloonState"/>
    <xs:element minOccurs="0" name="BitmapEmbeddedFonts" type="xs:boolean"/>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="Bookmarks" type="tns1:FixedFormatBookmark"/>
    <xs:element minOccurs="0" name="IncludeDocumentProperties" type="xs:boolean"/>
    <xs:element minOccurs="0" name="IncludeDocumentStructure" type="xs:boolean"/>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="OutputQuality" type="tns1:FixedFormatQuality"/>
    <xs:element minOccurs="0" name="UsePDFA" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

BalloonState: A **BalloonState** (section 2.2.5.1) value that specifies the preferred visibility of markup balloons in the output file of a conversion item.

BitmapEmbeddedFonts: A **Boolean** value that specifies a preference to rasterize fonts when they cannot be embedded in the output file of a conversion item.

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Bookmarks: A **FixedFormatBookmark** (section 2.2.5.3) value that specifies the preferred **bookmarks** to be created in the output file of a conversion item.

IncludeDocumentProperties: A Boolean value that specifies a preference to include **document properties** in the output file of a conversion item.

IncludeDocumentStructure: A Boolean value that specifies a preference to include document structure tags in the output file of a conversion item.

OutputQuality: A **FixedFormatQuality** (section 2.2.5.4) value that specifies the preferred quality of the output file of a conversion item.

UsePDFA: A Boolean value that specifies a preference to use the PDF/A format defined in [ISO-19005-1] for the output file all conversion items within a conversion job that has a preferred **SaveFormat** (section 2.2.5.9) value of **PDF**.

2.2.4.4 ReadOnlyFault

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/service

The **ReadOnlyFault** complex type specifies a fault which indicates that the protocol server could not complete a request because the storage used for **conversion jobs**, **conversion groups**, and **conversion items** is in read-only mode.<2>

```
<xs:complexType name="ReadOnlyFault" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence/>
</xs:complexType>
```

2.2.5 Simple Types

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

Simple type	Description
BalloonState	A string value specifying the preferred visibility of markup balloons in the output file of a **conversion item** in a **conversion job** with a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.
CompatibilityMode	A string value specifying the preferred compatibility mode of the output file of a conversion item.
FixedFormatBookmark	A string value specifying the preferred creation of **bookmarks** in the output file of a conversion item in a conversion job with a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.
FixedFormatQuality	A string value specifying the preferred quality of the output file of a conversion item in a conversion job with a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.
guid	A string representing a **GUID** or unique identifier.
MarkupTypes	A list of string values specifying the preferred markup types to display in the output file of a conversion item.
RevisionState	A string value specifying the preferred visibility of revision marking and comments in the output file of a conversion item.

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Simple type	Description
SaveBehavior	A string value specifying the preferred overwrite behavior of the output file of a conversion item when the output file already exists.
SaveFormat	A string value specifying the preferred file format of the output file of a conversion item.

2.2.5.1 BalloonState

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions

A string value specifying the preferred visibility of markup balloons in the output file of a **conversion item** in a **conversion job** with a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.

```
<xs:simpleType name="BalloonState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AlwaysUse"/>
    <xs:enumeration value="Inline"/>
    <xs:enumeration value="OnlyCommentsAndFormatting"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **BalloonState** simple type.

Value	Meaning
AlwaysUse	Display all revision marking and comments in balloons.
Inline	Display all revision marking and comments inline.
OnlyCommentsAndFormatting	Display only comments and formatting revisions in markup balloons and other revision marking inline.

2.2.5.2 CompatibilityMode

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions

A string value specifying the preferred compatibility mode of the output file of a **conversion item**.

```
<xs:simpleType name="CompatibilityMode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Word2003"/>
    <xs:enumeration value="Word2007"/>
    <xs:enumeration value="Word2010"/>
    <xs:enumeration value="Word2013"/>
    <xs:enumeration value="MaintainCurrentSetting"/>
    <xs:enumeration value="Current"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **CompatibilityMode** simple type.

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Value	Meaning
Word2003	Compatible with features defined in [MS-DOC].
Word2007	Compatible with word processing features specified in [ECMA-376].
Word2010	Compatible with word processing features specified in [ISO/IEC29500-1:2011] and [ISO/IEC29500-4:2011] as well as those specified in [MS-DOCX] except where noted for an [MS-DOCX] section 2.3.5 element with a **val** attribute whose value is **14**.
Word2013	Compatible with word processing features specified in [ISO/IEC29500-1:2011] and [ISO/IEC29500-4:2011] as well as those specified in [MS-DOCX].
MaintainCurrentSetting	Maintain the compatibility mode of the input file.
Current	Use the latest compatibility mode of the protocol server.

2.2.5.3 FixedFormatBookmark

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions

A string value specifying the preferred creation of **bookmarks** in the output file of a **conversion item** in a **conversion job** with a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.

```
<xs:simpleType name="FixedFormatBookmark" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Headings"/>
    <xs:enumeration value="Bookmarks"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **FixedFormatBookmark** simple type.

Value	Meaning
None	Create no bookmarks(1).
Headings	Create bookmarks(1) from the headings in the input file.
Bookmarks	Create bookmarks(1) from the bookmarks(1) in the input file.

2.2.5.4 FixedFormatQuality

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions

A string value specifying the preferred quality of the output file of a **conversion item** in a **conversion job** with a preferred **SaveFormat** (section 2.2.5.9) value of **PDF** or **XPS**.

```
<xs:simpleType name="FixedFormatQuality" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Standard"/>
    <xs:enumeration value="Minimum"/>
  </xs:restriction>
</xs:simpleType>
```


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The following table specifies the allowable values for the **FixedFormatQuality** simple type.

Value	Meaning
Standard	Optimize quality for printing.
Minimum	Optimize quality for online viewing.

2.2.5.5 guid

Namespace: http://schemas.microsoft.com/2003/10/Serialization/

A string representing a **GUID** or unique identifier.

```
<xs:simpleType name="guid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.5.6 MarkupTypes

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions

A list of string values specifying the preferred markup types to display in the output file of a **conversion item**.

```
<xs:simpleType name="MarkupTypes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Comments"/>
        <xs:enumeration value="Ink"/>
        <xs:enumeration value="Text"/>
        <xs:enumeration value="Formatting"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for the **MarkupTypes** simple type.

Value	Meaning
Comments	Display comments.
Ink	Display ink annotations.
Text	Display content revisions.
Formatting	Display formatting revisions.

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2.2.5.7 RevisionState

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions

A string value specifying the preferred visibility of revision marking and comments in the output file of a **conversion item**.

```
<xs:simpleType name="RevisionState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Final"/>
    <xs:enumeration value="FinalShowingMarkup"/>
    <xs:enumeration value="Original"/>
    <xs:enumeration value="OriginalShowingMarkup"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **RevisionState** simple type.

Value	Meaning
Final	Display the final document without revision marking and comments.
FinalShowingMarkup	Display the final document with revision marking and comments.
Original	Display the original document without revision marking and comments.
OriginalShowingMarkup	Display the original document with revision marking and comments.

2.2.5.8 SaveBehavior

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions

A string value specifying the preferred overwrite behavior of the output file of a **conversion item** when the output file already exists.

```
<xs:simpleType name="SaveBehavior" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AppendIfPossible"/>
    <xs:enumeration value="AlwaysOverwrite"/>
    <xs:enumeration value="AppendOnly"/>
    <xs:enumeration value="NeverOverwrite"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **SaveBehavior** simple type.

Value	Meaning
AppendIfPossible	If the output file location supports **version control**, save the output file as a new version of the existing file. If the output file location does not support version control, overwrite the existing file.
AlwaysOverwrite	Always overwrite the existing file.
AppendOnly	If the output file location supports version control, save the output file as a new version of the existing file. If the output file location does not support version control, do not save the output file.

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Value	Meaning
NeverOverwrite	Never overwrite an existing file.

2.2.5.9 SaveFormat

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions

A string value specifying the preferred file format of the output file of a **conversion item**.

```
<xs:simpleType name="SaveFormat" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Automatic"/>
    <xs:enumeration value="Document"/>
    <xs:enumeration value="DocumentMacroEnabled"/>
    <xs:enumeration value="Document97"/>
    <xs:enumeration value="Template"/>
    <xs:enumeration value="TemplateMacroEnabled"/>
    <xs:enumeration value="Template97"/>
    <xs:enumeration value="MHTML"/>
    <xs:enumeration value="PDF"/>
    <xs:enumeration value="RTF"/>
    <xs:enumeration value="XML"/>
    <xs:enumeration value="XPS"/>
    <xs:enumeration value="DocumentStrict"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **SaveFormat** simple type.

Value	Meaning
Automatic	Automatically determined based on the file extension.
Document	Office Open XML document. For more information, see [ECMA-376], [ISO/IEC29500-1:2011], [ISO/IEC29500-4:2011], and [MS-DOCX].
DocumentMacroEnabled	Office Open XML document with **macros** enabled. For more information, see [ECMA-376], [ISO/IEC29500-1:2011], [ISO/IEC29500-4:2011], [MS-DOCX], [MS-OFFMACRO], and [MS-OFFMACRO2].
Document97	Word Binary File Format document. For more information, see [MS-DOC].
Template	Office Open XML document **template**. For more information, see [ECMA-376], [ISO/IEC29500-1:2011], [ISO/IEC29500-4:2011], and [MS-DOCX].
TemplateMacroEnabled	Office Open XML document template with macros enabled. For more information, see [ECMA-376], [ISO/IEC29500-1:2011], [ISO/IEC29500-4:2011], [MS-DOCX], [MS-OFFMACRO], and [MS-OFFMACRO2]
Template97	Word Binary File Format **document template**. For more information, see [MS-DOC].
MHTML	Single file web page. For more information, see [RFC2557].
PDF	**Portable Document Format (PDF)** file. For more information, see [ISO-19005-1].
RTF	Rich Text Format (RTF). For more information, see [MSFT-RTF].
XML	Word XML document. For more information, see [MSDN-Office2003XMLSchemas].

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Value	Meaning
XPS	**XML Paper Specification (XPS)** file. For more information, see [MSFT-XPS].
DocumentStrict	Strict Office Open XML document<3>. For more information, see [ISO/IEC29500-1:2011], [ISO/IEC29500-4:2011], and [MS-DOCX].

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.

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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 that are made by the higher-layer protocol or application are passed directly to the transport, and the results that are returned by the transport are passed directly to the higher-layer protocol or application.

Except where specified, protocol clients SHOULD interpret Hypertext Transfer Protocol (HTTP) status codes that are returned by the protocol server as specified in [RFC2616], section 10.

This protocol allows protocol servers to notify protocol clients of application-level faults by using SOAP faults. Except where otherwise 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 to notify protocol clients of authorization faults by using either HTTP status codes or SOAP faults, as specified previously in this section.

3.1 Server Details

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.

This protocol uses the following three basic data structures:

- **conversion item**: A single conversion from an input file to an output file.
- **conversion group**: A hierarchical grouping of conversion items based on input file URL and output file URL. A conversion group is comprised of one or more conversion items. There are two logical types of conversion groups.
  - For conversion items within a conversion group that specify a common input root URL and common output root URL, the path specified by a conversion item will be a URL relative to both the common input root and output root URLs.
  - For conversion items within a conversion group that do not specify a common input root URL and common output root URL, the input file and output file paths specified by a conversion item will be a full, absolute URL.
- **conversion job**: A logical group of conversion groups that also contains conversion settings that apply to all conversion items within the conversion groups. A conversion job is comprised of one or more conversion groups.

The protocol client builds up a conversion job and sends it to the protocol server which stores the data unchanged. The protocol client adds a conversion job as follows:

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1. The protocol client first calls the **AddJob** operation to add a new conversion job, specifying the conversion job identifier, conversion job settings and other data that applies to all conversion groups and conversion items in the conversion job.

2. For each conversion group in the conversion job, the protocol client calls the **AddGroup** or **AddItems** operation, specifying the conversion group identifier, all conversion items in the conversion group and other data that applies to all conversion items in the conversion group.

3. After all conversion groups have been added to the conversion job, the protocol client submits the conversion job by calling the **SubmitJob** operation.

The protocol client initiates the conversion of one or more conversion items to the protocol server using the **ConvertBatch** operation.

The protocol client is able to retrieve a list of conversion jobs, including the conversion job identifier and other metadata, with the **GetJobs** operation. The overall status of a specific conversion job is returned by the **GetJobStatus** operation. To check the status of a specific conversion item, the protocol client first uses the **GetGroups** operation to retrieve the list of conversion groups in a conversion job and then uses the **GetItems** operation to retrieve the individual conversion items in each conversion group.

3.1.1.1 Immediate Conversion Jobs

An **immediate conversion job** converts an input stream to an output stream.<4> The protocol client adds an immediate conversion job using the **AddSyncJob** operation or the **AddSyncStreamJob** operation.

The protocol client is able to check the status of one or more immediate conversion jobs using the **BatchGetSyncJobStatus** operation.

The protocol client can retrieve the output of the immediate conversion job submitted through the **AddSyncStreamJob** using the **GetSyncStreamOutputBytes** operation.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The following table summarizes the list of operations as defined by this specification.

Operation	Description
AddGroup	Adds a group of **conversion items** that share a common input and output path to a **conversion job**.
AddItems	Adds a group of conversion items that do not share a common path to a conversion job.
AddJob	Adds a new conversion job to the queue.
AddSyncJob	Adds an **immediate conversion job** from a source file path and a destination file path.<5>

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Operation	Description
AddSyncStreamJob	Adds an immediate conversion job from a stream containing the input file.<6>
BatchGetSyncJobStatus	Get the status of a number of immediate conversion jobs.<7>
CancelJob	Marks a conversion job as canceled.
ConvertBatch	Initiates the conversion of a batch of conversion items.
GetGroups	Gets a conversion job and the **conversion groups** within the conversion job.
GetId	Gets the unique identifier of a currently running instance of the protocol server.
GetItems	Gets the conversion items in a conversion group.
GetJobs	Gets a list of conversion jobs.
GetJobStatus	Gets the status of a conversion job.
GetSyncStreamOutputBytes	Retrieves the output file for the immediate conversion job that was submitted with the **AddSyncStreamJob** (section 3.1.4.14) **WSDL operation**.<8>
Ping	Contacts a protocol server to determine the responsiveness of the service.
SubmitJob	Marks a conversion job as submitted to specify that all conversion groups in a conversion job have been added.

3.1.4.1 AddGroup

Adds a group of **conversion items** that share a common input and output path to a **conversion job**.

The following is the **WSDL** port type specification of the **AddGroup** **WSDL operation**.

```
<wsdl:operation name="AddGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
name="AddGroupRequest" message="tns:AddGroupRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="AddGroupResponse" message="tns:AddGroupResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication AddGroup ReadOnlyFaultFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **AddGroupRequest** request **WSDL message** for each group of conversion items being added to a conversion job that share a common input and output path.

The protocol server MUST respond with an **AddGroupResponse** message.

3.1.4.1.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

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Message	Description
AddGroupRequest	The request WSDL message for the **AddGroup** **WSDL operation**.
AddGroupResponse	The response WSDL message for the **AddGroup** WSDL operation.

3.1.4.1.1.1 AddGroupRequest

The request **WSDL message** for the **AddGroup** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addGroup
```

The **SOAP body** contains the **AddGroupRequest** element.

3.1.4.1.1.2 AddGroupResponse

The response **WSDL message** for the **AddGroup** **WSDL operation**.

The **SOAP body** contains the **AddGroupResponse** element.

3.1.4.1.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
AddGroupRequest	The input data for the **AddGroup** **WSDL operation**.
AddGroupResponse	The result data for the **AddGroup** WSDL operation.

3.1.4.1.2.1 AddGroupRequest

The **AddGroupRequest** element specifies the input data for the **AddGroup** **WSDL operation**.

```
<xs:element name="AddGroupRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
      <xs:element minOccurs="0" name="InputRoot" nillable="true" type="xs:string"/>
      <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Items" nillable="true" type="q32:ArrayOfstring"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="OutputRoot" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GroupId: A **GroupId** (section 2.2.3.1) element containing a new, unique value generated by the protocol client that identifies the **conversion group** within the **conversion job**.

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InputRoot: A string containing the base URL of the input path of all **conversion items** in the conversion group. This element MUST NOT be null.

Items: An **ArrayOfstring** (section 2.2.4.1) element containing the path of each conversion item in the conversion group, relative to the **InputRoot** and **OutputRoot**.

JobId: A **JobId** (section 2.2.3.2) element identifying the conversion job to which the conversion group belongs.

OutputRoot: A string containing the base URL of the output path of all conversion items in the conversion group. This element MUST NOT be null.

3.1.4.1.2.2 AddGroupResponse

The **AddGroupResponse** element specifies the result data for the **AddGroup** **WSDL operation**.

```
<xs:element name="AddGroupResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

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 AddItems

Adds a group of **conversion items** that do not share a common path to a **conversion job**.

The following is the **WSDL** port type specification of the **AddItems** **WSDL operation**.

```
<wsdl:operation name="AddItems" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
name="AddItemsRequest" message="tns:AddItemsRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="AddItemsResponse" message="tns:AddItemsResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
```


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```
message="tns:IConversionServiceApplication_AddItems_ReadOnlyFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **AddItemsRequest** request **WSDL message** for each group of conversion items being added to a conversion job that do not necessarily share a common input and output path.

The protocol server MUST respond with an **AddItemsResponse** message.

3.1.4.2.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
AddItemsRequest	The request WSDL message for the **AddItems** **WSDL operation**.
AddItemsResponse	The response WSDL message for the **AddItems** WSDL operation.

3.1.4.2.1.1 AddItemsRequest

The request **WSDL message** for the **AddItems** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addItems
```

The **SOAP body** contains the **AddItemsRequest** element.

3.1.4.2.1.2 AddItemsResponse

The response **WSDL message** for the **AddItems** **WSDL operation**.

The **SOAP body** contains the **AddItemsResponse** element.

3.1.4.2.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
AddItemsRequest	The input data for the **AddItems** **WSDL operation**.
AddItemsResponse	The result data for the **AddItems** WSDL operation.

3.1.4.2.2.1 AddItemsRequest

The **AddItemsRequest** element specifies the input data for the **AddItems** **WSDL operation**.

```
<xs:element name="AddItemsRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```


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```
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
      <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="InputUrls" nillable="true" type="q32:ArrayOfstring"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="OutputUrls" nillable="true" type="q32:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GroupId: A **GroupId** (section 2.2.3.1) element containing a new, unique value generated by the protocol client that identifies the **conversion group** within the **conversion job**.

InputUrls: An **ArrayOfstring** (section 2.2.4.1) element containing the full input path of each **conversion item** in the conversion group. This element MUST contain the same number of strings as the **OutputUrls** element.

JobId: A **JobId** (section 2.2.3.2) element identifying the conversion job to which the conversion group belongs.

OutputUrls: An **ArrayOfstring** (section 2.2.4.1) element containing the full output path of each conversion item in the conversion group. This element MUST contain the same number of strings as the **InputUrls** element.

3.1.4.2.2.2 AddItemsResponse

The **AddItemsResponse** element specifies the result data for the **AddItems** **WSDL operation**.

```
<xs:element name="AddItemsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

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.

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3.1.4.3 AddJob

Adds a new **conversion job** to the queue.

The following is the **WSDL** port type specification of the **AddJob** **WSDL operation**.

```
<wsdl:operation name="AddJob" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
name="AddJobRequest" message="tns:AddJobRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob/response"
name="AddJobResponse" message="tns:AddJobResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication AddJob ReadOnlyFaultFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **AddJobRequest** request **WSDL message** to add a new conversion job to the queue.

The protocol server MUST respond with an **AddJobResponse** message.

3.1.4.3.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
AddJobRequest	The request WSDL message for the **AddJob** **WSDL operation**.
AddJobResponse	The response WSDL message for the **AddJob** WSDL operation.

3.1.4.3.1.1 AddJobRequest

The request **WSDL message** for the **AddJob** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addJob
```

The **SOAP body** contains the **AddJobRequest** element.

3.1.4.3.1.2 AddJobResponse

The response **WSDL message** for the **AddJob** **WSDL operation**.

The **SOAP body** contains the **AddJobResponse** element.

3.1.4.3.2 Elements

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The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
AddJobRequest	The input data for the **AddJob** **WSDL operation**.
AddJobResponse	The result data for the **AddJob** WSDL operation.

3.1.4.3.2.1 AddJobRequest

The **AddJobRequest** element specifies the input data for the **AddJob** **WSDL operation**.

```
<xs:element name="AddJobRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
      <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
      <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section 2.2.3.2) element containing a new, unique value generated by the protocol client that identifies the **conversion job**.

Name: An optional string that is stored along with the conversion job.

PartitionId: A **PartitionId** (section 2.2.3.3) element identifying the **partition** of the conversion job.

Settings: An optional **ConversionJobSettings** (section 2.2.4.2) element that provides a collection of preferred settings for all **conversion items** within the conversion job.

UserToken: A **UserToken** (section 2.2.3.4) element that provides user credentials for accessing the input and output files in the conversion job.

3.1.4.3.2.2 AddJobResponse

The **AddJobResponse** element specifies the result data for the **AddJob** **WSDL operation**.

```
<xs:element name="AddJobResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.3.3 Complex Types

None.

3.1.4.3.4 Simple Types

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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 CancelJob

Marks a **conversion job** as canceled.

The following is the **WSDL** port type specification of the **CancelJob** **WSDL operation**.

```
<wsdl:operation name="CancelJob" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
name="CancelJobRequest" message="tns:CancelJobRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
name="CancelJobResponse" message="tns:CancelJobResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication_CancelJob_ReadOnlyFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **CancelJobRequest** request **WSDL message** to mark a conversion job as canceled.

The protocol server MUST respond with a **CancelJobResponse** response WSDL message.

3.1.4.4.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
CancelJobRequest	The request WSDL message for the **CancelJob** **WSDL operation**.
CancelJobResponse	The response WSDL message for the **CancelJob** WSDL operation.

3.1.4.4.1.1 CancelJobRequest

The request **WSDL message** for the **CancelJob** **WSDL operation**.

The **SOAP action** value is:

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```
http://schemas.microsoft.com/office/server/word/2009/08/cancelJob
```

The **SOAP body** contains the **CancelJobRequest** element.

3.1.4.4.1.2 CancelJobResponse

The response **WSDL message** for the **CancelJob WSDL operation**.

The **SOAP body** contains the **CancelJobResponse** element.

3.1.4.4.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
CancelJobRequest	The input data for the **CancelJob WSDL operation**.
CancelJobResponse	The result data for the **CancelJob** WSDL operation.

3.1.4.4.2.1 CancelJobRequest

The **CancelJobRequest** element specifies the input data for the **CancelJob WSDL operation**.

```
<xs:element name="CancelJobRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section 2.2.3.2) element identifying the **conversion job** to mark as canceled.

PartitionId: A **PartitionId** (section 2.2.3.3) element identifying the **partition** of the conversion job.

3.1.4.4.2.2 CancelJobResponse

The **CancelJobResponse** element specifies the result data for the **CancelJob WSDL operation**.

```
<xs:element name="CancelJobResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.4.3 Complex Types

None.

3.1.4.4.4 Simple Types

Pre-liminary

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 ConvertBatch

Initiates the conversion of a batch of **conversion items**.

The following is the **WSDL** port type specification of the **ConvertBatch** **WSDL operation**.

```
<wsdl:operation name="ConvertBatch" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
name="ConvertBatchRequest" message="tns:ConvertBatchRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **ConvertBatchRequest** request **WSDL message** to initiate the conversion of a batch of conversion items on the currently running instance of the protocol server and the protocol server MUST initiate the conversion of each conversion item specified by a **ConvertBatchItem** element in the **Items** child element of the **ConvertBatchRequest** request WSDL message.

The conversion process is asynchronous. There is no response message for the **ConvertBatch** WSDL operation. Clients can query the status of the **conversion job** using the **GetJobStatus** WSDL operation as specified in section 3.1.4.10.

3.1.4.5.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
ConvertBatchRequest	The request WSDL message for the **ConvertBatch** **WSDL operation**.

3.1.4.5.1.1 ConvertBatchRequest

The request **WSDL message** for the **ConvertBatch** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/convertBatch
```


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The **SOAP body** contains the **ConvertBatchRequest** element.

3.1.4.5.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
ConvertBatchRequest	The input data for the **ConvertBatch** **WSDL operation**.

3.1.4.5.2.1 ConvertBatchRequest

The **ConvertBatchRequest** element specifies the input data for the **ConvertBatch** **WSDL operation**.

```
<xs:element name="ConvertBatchRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Items" nillable="true"
type="q29:ArrayOfConvertBatchItem"/>
      <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Jobs" nillable="true"
type="q32:ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Items: An **ArrayOfConvertBatchItem** element containing the set of **conversion items** to be converted.

Jobs: An **ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA** element that represents a **dictionary** of **conversion jobs** to which the conversion items in the **ConvertBatchRequest** request **WSDL message** belong.

3.1.4.5.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfConvertBatchItem	The **ArrayOfConvertBatchItem** complex type contains a set of **ConvertBatchItem** elements representing the **conversion items** for which conversion is being initiated.
ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA	The **ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA** complex type represents a **dictionary** of **conversion jobs** to which the conversion items in the **ConvertBatchRequest** request **WSDL message** belong.
ConvertBatchItem	The **ConvertBatchItem** complex type represents a

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Complex type	Description
	single conversion item in a **ConvertBatchRequest** request WSDL message.
ConvertBatchJob	The **ConvertBatchJob** complex type represents a single conversion job to which one or more conversion items in the **ConvertBatchRequest** request WSDL message belong.

3.1.4.5.3.1 ArrayOfConvertBatchItem

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/convertBatch

The **ArrayOfConvertBatchItem** complex type contains a set of **ConvertBatchItem** elements representing the **conversion items** for which conversion is being initiated.

```
<xs:complexType name="ArrayOfConvertBatchItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ConvertBatchItem" nillable="true"
type="q29:ConvertBatchItem"/>
  </xs:sequence>
</xs:complexType>
```

ConvertBatchItem: A single **ConvertBatchItem** element representing a single conversion item.

3.1.4.5.3.2 ConvertBatchItem

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/convertBatch

The **ConvertBatchItem** complex type represents a single **conversion item** in a **ConvertBatchRequest** request **WSDL message**.

```
<xs:complexType name="ConvertBatchItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
    <xs:element minOccurs="0" name="InputFile" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ItemId" type="xs:int"/>
    <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    <xs:element minOccurs="0" name="OutputFile" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

GroupId: A **GroupId** (section 2.2.3.1) element that identifies the **conversion group** to which the conversion item belongs.

InputFile: A string value containing the full path for the input file of the conversion item.

ItemId: An integer value that identifies the conversion item within the conversion group to which the conversion item belongs.

JobId: A **JobId** (section 2.2.3.2) element that identifies the **conversion job** to which the conversion item belongs.

OutputFile: A string value containing the full path for the output file of the conversion item.

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3.1.4.5.3.3 ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA** complex type represents a **dictionary** of **conversion jobs** to which the **conversion items** in the **ConvertBatchRequest** request **WSDL message** belong.

```
<xs:complexType name="ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfunsignedLongConvertBatchJobdfuNjXEA">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" type="xs:unsignedLong"/>
          <xs:element
xmlns:q29="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch" name="Value"
nillable="true" type="q29:ConvertBatchJob"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

KeyValueOfunsignedLongConvertBatchJobdfuNjXEA: A single dictionary entry representing a conversion job and the unique identifier of that conversion job.

KeyValueOfunsignedLongConvertBatchJobdfuNjXEA.Key: The key of the dictionary entry containing an integer value that uniquely identifies the conversion job.

KeyValueOfunsignedLongConvertBatchJobdfuNjXEA.Value: The **ConvertBatchJob** value of the dictionary entry.

3.1.4.5.3.4 ConvertBatchJob

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/convertBatch

The **ConvertBatchJob** complex type represents a single **conversion job** to which one or more **conversion items** in the **ConvertBatchRequest** request **WSDL message** belong.

```
<xs:complexType name="ConvertBatchJob" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
    <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
```

Settings: A **ConversionJobSettings** (section 2.2.4.2) element specifying the preferred settings for the conversion items within the conversion job.

UserToken: A **UserToken** (section 2.2.3.4) element that provides user credentials for accessing the input and output files of the conversion items within the conversion job.

3.1.4.5.4 Simple Types

None.

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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 GetGroups

Gets a **conversion job** and the **conversion groups** within the conversion job.

The following is the **WSDL** port type specification of the **GetGroups** **WSDL operation**.

```
<wsdl:operation name="GetGroups" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
name="GetGroupsRequest" message="tns:GetGroupsRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
name="GetGroupsResponse" message="tns:GetGroupsResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **GetGroupsRequest** request **WSDL message** to get a conversion job and all conversion groups within the conversion job.

The protocol server MUST respond with a **GetGroupsResponse** response WSDL message.

3.1.4.6.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
GetGroupsRequest	The request WSDL message for the **GetGroups** **WSDL operation**.
GetGroupsResponse	The response WSDL message for the **GetGroups** WSDL operation.

3.1.4.6.1.1 GetGroupsRequest

The request **WSDL message** for the **GetGroups** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getGroups
```

The **SOAP body** contains the **GetGroupsRequest** element.

3.1.4.6.1.2 GetGroupsResponse

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The response **WSDL message** for the **GetGroups WSDL operation**.

The **SOAP body** contains the **GetGroupsResponse** element.

3.1.4.6.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetGroupsRequest	The input data for the **GetGroups WSDL operation**.
GetGroupsResponse	The result data for the **GetGroups** WSDL operation.

3.1.4.6.2.1 GetGroupsRequest

The **GetGroupsRequest** element specifies the input data for the **GetGroups WSDL operation**.

```
<xs:element name="GetGroupsRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section 2.2.3.2) element identifying the **conversion job**.

PartitionId: A **PartitionId** (section 2.2.3.3) element identifying the **partition** of the conversion job.

3.1.4.6.2.2 GetGroupsResponse

The **GetGroupsResponse** element specifies the result data for the **GetGroups WSDL operation**.

```
<xs:element name="GetGroupsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="CancelTime" nillable="true" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="CreateTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="Groups" nillable="true"
type="q26:ArrayOfGetGroupsGroup"/>
      <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
      <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

CancelTime: A **dateTime** value specifying when the **conversion job** was canceled. If the conversion job has not been canceled, the protocol server MUST write a null value.

CreateTime: A **dateTime** value specifying when the conversion job was created.

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Groups: An **ArrayOfGetGroupsGroup** element containing the **conversion groups** within the conversion job.

NotSubmitted: A **Boolean** value specifying if the conversion job has not been submitted.

Settings: A **ConversionJobSettings** (section 2.2.4.2) element specifying the preferred settings for all **conversion items** within the conversion job.

3.1.4.6.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfGetGroupsGroup	The **ArrayOfGetGroupsGroup** complex type contains a set of **GetGroupsGroup** elements representing the **conversion groups** in a **conversion job**.
GetGroupsGroup	The **GetGroupsGroup** complex type represents a single conversion group in a conversion job.

3.1.4.6.3.1 ArrayOfGetGroupsGroup

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response

The **ArrayOfGetGroupsGroup** complex type contains a set of **GetGroupsGroup** elements representing the **conversion groups** in a **conversion job**.

```
<xs:complexType name="ArrayOfGetGroupsGroup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="GetGroupsGroup" nillable="true"
type="q26:GetGroupsGroup"/>
  </xs:sequence>
</xs:complexType>
```

GetGroupsGroup: A single **GetGroupsGroup** element representing a single conversion group in a conversion job.

3.1.4.6.3.2 GetGroupsGroup

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response

The **GetGroupsGroup** complex type represents a single **conversion group** in a **conversion job**.

```
<xs:complexType name="GetGroupsGroup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Id" type="xs:short"/>
    <xs:element minOccurs="0" name="InputRoot" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="OutputRoot" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Id: An integer value identifying the conversion group.

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InputRoot: If this value is non-null, this MUST be a string value specifying the base input URL of the of all **conversion items** in the conversion group.

OutputRoot: If the **InputRoot** element has a non-null value, this MUST be a string value specifying the base output URL of all conversion items in the conversion group. Otherwise, this element MUST be ignored.

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 GetId

Gets the unique identifier of a currently running instance of the protocol server.

The following is the **WSDL** port type specification of the **GetId** **WSDL operation**.

```
<wsdl:operation name="GetId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId"
name="GetIdRequest" message="tns:GetIdRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
name="GetIdResponse" message="tns:GetIdResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **GetIdRequest** request **WSDL message** and the protocol server MUST return a **GetIdResponse** response WSDL message, as follows:

- The protocol server MUST return an identifier that uniquely identifies the current instance of the protocol server.
- The protocol server MUST NOT return an identifier used by another protocol server.
- If the current instance of the protocol server has previously received a **GetIdRequest** request WSDL message, the protocol server MUST return the same identifier returned in the previous **GetIdResponse** response WSDL message.
- If the current instance of the protocol server has not previously received a **GetIdRequest** request WSDL message, the protocol server MUST return a new identifier.

3.1.4.7.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

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Message	Description
GetIdRequest	The request WSDL message for the **GetId** **WSDL operation**.
GetIdResponse	The response WSDL message for the **GetId** WSDL operation.

3.1.4.7.1.1 GetIdRequest

The request **WSDL message** for the **GetId** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getId
```

The **SOAP body** contains the **GetIdRequest** element.

3.1.4.7.1.2 GetIdResponse

The response **WSDL message** for the **GetId** **WSDL operation**.

The **SOAP body** contains the **GetIdResponse** element.

3.1.4.7.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetIdRequest	The input data for the **GetId** **WSDL operation**.
GetIdResponse	The result data for the **GetId** WSDL operation.

3.1.4.7.2.1 GetIdRequest

The **GetIdRequest** element specifies the input data for the **GetId** **WSDL operation**.

```
<xs:element name="GetIdRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.7.2.2 GetIdResponse

The **GetIdResponse** element specifies the result data for the **GetId** **WSDL operation**.

```
<xs:element name="GetIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AssignedItemCount" type="xs:int"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="Id" type="q16:guid"/>
```


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

AssignedItemCount: An integer value that specifies the count of **conversion items** the current running instance of the protocol server is converting.

Id: A **guid** (section 2.2.5.5) element that uniquely identifies the current running instance of the protocol server.

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.

3.1.4.8 GetItems

Gets the **conversion items** in a **conversion group**.

The following is the **WSDL** port type specification of the **GetItems** **WSDL operation**.

```
<wsdl:operation name="GetItems" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
name="GetItemsRequest" message="tns:GetItemsRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
name="GetItemsResponse" message="tns:GetItemsResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **GetItemsRequest** request **WSDL message** to get conversion items within a conversion group.

The protocol server MUST respond with a **GetItemsResponse** response WSDL message.

3.1.4.8.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

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Message	Description
GetItemsRequest	The request WSDL message for the **GetItems** **WSDL operation**.
GetItemsResponse	The response WSDL message for the **GetItems** WSDL operation.

3.1.4.8.1.1 GetItemsRequest

The request **WSDL message** for the **GetItems** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getItems
```

The **SOAP body** contains the **GetItemsRequest** element.

3.1.4.8.1.2 GetItemsResponse

The response **WSDL message** for the **GetItems** **WSDL operation**.

The **SOAP body** contains the **GetItemsResponse** element.

3.1.4.8.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetItemsRequest	The input data for the **GetItems** **WSDL operation**.
GetItemsResponse	The result data for the **GetItems** WSDL operation.

3.1.4.8.2.1 GetItemsRequest

The **GetItemsRequest** element specifies the input data for the **GetItems** **WSDL operation**.

```
<xs:element name="GetItemsRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Canceled" type="xs:boolean"/>
      <xs:element minOccurs="0" name="Failed" type="xs:boolean"/>
      <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
      <xs:element minOccurs="0" name="InProgress" type="xs:boolean"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="NotStarted" type="xs:boolean"/>
      <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
      <xs:element minOccurs="0" name="Succeeded" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```


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Canceled: A **Boolean** value specifying if unfinished conversion items in a canceled **conversion job** are included in the **GetItemsResponse** response **WSDL message**.

Failed: A Boolean value specifying if failed **conversion items** in a submitted conversion job are included in the **GetItemsResponse** response WSDL message.

GroupId: A **GroupId** (section 2.2.3.1) element identifying the **conversion group**.

InProgress: A Boolean value specifying if in-progress conversion items in a non-canceled, submitted conversion job are included in the **GetItemsResponse** response WSDL message.

JobId: A **JobId** (section 2.2.3.2) element identifying the conversion job.

NotStarted: A Boolean value specifying if unstarted conversion items in a non-canceled, submitted conversion job are included in the **GetItemsResponse** response WSDL message.

NotSubmitted: A Boolean value specifying if conversion items in a non-submitted and non-cancelled conversion job are included in the **GetItemsResponse** response WSDL message.

PartitionId: A **PartitionId** (section 2.2.3.3) element identifying the **partition** of the conversion job.

Succeeded: A Boolean value specifying if successfully finished conversion items in a submitted conversion job are included in the **GetItemsResponse** response WSDL message.

3.1.4.8.2.2 GetItemsResponse

The **GetItemsResponse** element specifies the result data for the **GetItems WSDL operation**.

```
<xs:element name="GetItemsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q20="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
minOccurs="0" ref="q20:Items"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

q20:Items: An **ArrayOfGetItemsItem** element containing a set of conversion items.

3.1.4.8.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfGetItemsItem	The **ArrayOfGetItemsItem** complex type contains a set of **GetItemsItem** elements representing **conversion items** in a **conversion group**.
GetItemsItem	The **GetItemsItem** complex type represents a single conversion item in a conversion group.

3.1.4.8.3.1 ArrayOfGetItemsItem

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Namespace: http://schemas.microsoft.com/office/server/word/2009/08/getItems/response

The **ArrayOfGetItemsItem** complex type contains a set of **GetItemsItem** elements representing **conversion items** in a **conversion group**.

```
<xs:complexType name="ArrayOfGetItemsItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="GetItemsItem" nillable="true"
type="q20:GetItemsItem"/>
  </xs:sequence>
</xs:complexType>
```

GetItemsItem: A single **GetItemsItem** element representing a single conversion item in a conversion group.

3.1.4.8.3.2 GetItemsItem

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/getItems/response

The **GetItemsItem** complex type represents a single **conversion item** in a **conversion group**.

```
<xs:complexType name="GetItemsItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:int"/>
    <xs:element minOccurs="0" name="Id" type="xs:int"/>
    <xs:element minOccurs="0" name="InputFile" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="OutputFile" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="StartTime" nillable="true" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="StopTime" nillable="true" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>
```

ErrorCode: An integer value specifying the error code of a failed conversion item. If the conversion item has failed, the protocol server MUST write a non-null value.

Id: An integer value that uniquely identifies the conversion item within the conversion group.

InputFile: If the conversion group specifies base input and output URLs, this MUST be a string value containing the path of the conversion item relative to those URLs. If the conversion group does not specify base input and output URLs, this MUST be a string value containing the full input path of the conversion item.

OutputFile: If the conversion group specifies base input and output URLs, the protocol client MUST ignore this element. If the conversion group does not specify base input and output URLs, this MUST be a string value containing the full output path of the conversion item.

StartTime: A **dateTime** value that specifies when the conversion item started.

StopTime: A **dateTime** value that specifies when the conversion item finished.

3.1.4.8.4 Simple Types

None.

3.1.4.8.5 Attributes

None.

3.1.4.8.6 Groups

Preliminary

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9 GetJobs

Gets a list of **conversion jobs**.

The following is the **WSDL** port type specification of the **GetJobs WSDL operation**.

```
<wsdl:operation name="GetJobs" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
name="GetJobsRequest" message="tns:GetJobsRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
name="GetJobsResponse" message="tns:GetJobsResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **GetJobsRequest** request **WSDL message** to get a list of conversion jobs.

The protocol server MUST respond with a **GetJobsResponse** response WSDL message.

3.1.4.9.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
GetJobsRequest	The request WSDL message for the **GetJobs WSDL operation**.
GetJobsResponse	The response WSDL message for the **GetJobs** WSDL operation.

3.1.4.9.1.1 GetJobsRequest

The request **WSDL message** for the **GetJobs WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getJobs
```

The **SOAP body** contains the **GetJobsRequest** element.

3.1.4.9.1.2 GetJobsResponse

The response **WSDL message** for the **GetJobs WSDL operation**.

The **SOAP body** contains the **GetJobsResponse** element.

3.1.4.9.2 Elements

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The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetJobsRequest	The input data for the **GetJobs** **WSDL operation**.
GetJobsResponse	The result data for the **GetJobs** WSDL operation.

3.1.4.9.2.1 GetJobsRequest

The **GetJobsRequest** element specifies the input data for the **GetJobs** **WSDL operation**.

```
<xs:element name="GetJobsRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ActiveOnly" type="xs:boolean"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
      <xs:element minOccurs="0" name="SubmittedOnly" type="xs:boolean"/>
      <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ActiveOnly: A **Boolean** value specifying if only non-cancelled **conversion jobs** with unfinished **conversion items** are included in the **GetJobsResponse** response **WSDL message**.

PartitionId: A **PartitionId** (section 2.2.3.3) element specifying the **partition** to return conversion jobs from. The protocol server MUST NOT return conversion jobs that are part of a different partition.

SubmittedOnly: A Boolean value specifying if only conversion jobs that have been submitted are included in the **GetJobsResponse** response WSDL message.

UserToken: A **UserToken** (section 2.2.3.4) element that provides user credentials for accessing the input and output files in the conversion job.

3.1.4.9.2.2 GetJobsResponse

The **GetJobsResponse** element specifies the result data for the **GetJobs** **WSDL operation**.

```
<xs:element name="GetJobsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Jobs" nillable="true" type="q24:ArrayOfGetJobsJob"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Jobs: An **ArrayOfGetJobsJob** element containing the **conversion jobs**.

3.1.4.9.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

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Complex type	Description
ArrayOfGetJobsJob	The **ArrayOfGetJobsJob** complex type contains a set of **GetJobsJob** elements representing a set of **conversion jobs**.
GetJobsJob	The **GetJobsJob** complex type represents a single conversion job.

3.1.4.9.3.1 ArrayOfGetJobsJob

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response

The **ArrayOfGetJobsJob** complex type contains a set of **GetJobsJob** elements representing a set of **conversion jobs**.

```
<xs:complexType name="ArrayOfGetJobsJob" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="GetJobsJob" nillable="true"
type="q24:GetJobsJob"/>
  </xs:sequence>
</xs:complexType>
```

GetJobsJob: A single **GetJobsJob** element representing a single conversion job.

3.1.4.9.3.2 GetJobsJob

Namespace: http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response

The **GetJobsJob** complex type represents a single **conversion job**.

```
<xs:complexType name="GetJobsJob" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="CancelTime" nillable="true" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="CreateTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

CancelTime: A **dateTime** value specifying when the conversion job was canceled. If the conversion job has been canceled, the protocol server MUST write a non-null value.

CreateTime: A **dateTime** value specifying when the conversion job was created.

JobId: A **JobId** (section 2.2.3.2) element that identifies the conversion job.

Name: An optional string that is stored along with the conversion job.

NotSubmitted: A **Boolean** value specifying that the conversion job has been submitted.

3.1.4.9.4 Simple Types

None.

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3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10 GetJobStatus

Gets the status of a **conversion job**.

The following is the **WSDL** port type specification of the **GetJobStatus** **WSDL operation**.

```
<wsdl:operation name="GetJobStatus" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
name="GetJobStatusRequest" message="tns:GetJobStatusRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
name="GetJobStatusResponse" message="tns:GetJobStatusResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **GetJobStatusRequest** request **WSDL message** to get the status of a conversion job.

The protocol server MUST respond with a **GetJobStatusResponse** response WSDL message.

3.1.4.10.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
GetJobStatusRequest	The request WSDL message for the **GetJobStatus** **WSDL operation**.
GetJobStatusResponse	The response WSDL message for the **GetJobStatus** WSDL operation.

3.1.4.10.1.1 GetJobStatusRequest

The request **WSDL message** for the **GetJobStatus** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus
```

The **SOAP body** contains the **GetJobStatusRequest** element.

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3.1.4.10.1.2 GetJobStatusResponse

The response **WSDL message** for the **GetJobStatus** **WSDL operation**.

The **SOAP body** contains the **GetJobStatusResponse** element.

3.1.4.10.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetJobStatusRequest	The input data for the **GetJobStatus** **WSDL operation**.
GetJobStatusResponse	The result data for the **GetJobStatus** WSDL operation.

3.1.4.10.2.1 GetJobStatusRequest

The **GetJobStatusRequest** element specifies the input data for the **GetJobStatus** **WSDL operation**.

```
<xs:element name="GetJobStatusRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section 2.2.3.2) element identifying the **conversion job**.

PartitionId: A **PartitionId** (section 2.2.3.3) element identifying the **partition** of the conversion job.

3.1.4.10.2.2 GetJobStatusResponse

The **GetJobStatusResponse** element specifies the result data for the **GetJobStatus** **WSDL operation**.

```
<xs:element name="GetJobStatusResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Canceled" type="xs:int"/>
      <xs:element minOccurs="0" name="Count" type="xs:int"/>
      <xs:element minOccurs="0" name="Failed" type="xs:int"/>
      <xs:element minOccurs="0" name="InProgress" type="xs:int"/>
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="NotStarted" type="xs:int"/>
      <xs:element minOccurs="0" name="NotSubmitted" type="xs:int"/>
      <xs:element minOccurs="0" name="Succeeded" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Canceled: An integer value specifying the number of unfinished **conversion items** in a canceled **conversion job**. If the conversion job has not been canceled, this value MUST be 0.

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Count: An integer value specifying the total count of conversion items in a conversion job.

Failed: An integer value specifying the count of failed conversion items in a submitted conversion job. If the conversion job has not been submitted, this value MUST be 0.

InProgress: An integer value specifying the count of in-progress conversion items in a non-canceled, submitted conversion job. If the conversion job has been canceled or has not been submitted, this value MUST be 0.

Name: An optional string that is stored along with the conversion job.

NotStarted: An integer value specifying the count of unstarted conversion items in a non-canceled, submitted conversion job. If the conversion job has been canceled or has not been submitted, this value MUST be 0.

NotSubmitted: An integer value specifying the count of conversion items in a non-submitted and non-canceled conversion job. If the conversion job has been canceled or has been submitted, this value MUST be 0.

Succeeded: An integer value specifying the count of succeeded conversion items in a submitted conversion job. If the conversion job has not been submitted, this value MUST be 0.

3.1.4.10.3 Complex Types

None.

3.1.4.10.4 Simple Types

None.

3.1.4.10.5 Attributes

None.

3.1.4.10.6 Groups

None.

3.1.4.10.7 Attribute Groups

None.

3.1.4.11 Ping

Contacts a protocol server to determine the responsiveness of the service.

The following is the **WSDL** port type specification of the **Ping** **WSDL operation**.

```
<wsdl:operation name="Ping" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping"
name="PingRequest" message="tns:PingRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
name="PingResponse" message="tns:PingResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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The protocol client sends a **PingRequest** request **WSDL message** and the protocol server MUST increment a counter and MUST return a **PingResponse** response WSDL message.

3.1.4.11.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
PingRequest	The request WSDL message for the **Ping** **WSDL operation**.
PingResponse	The response WSDL message for the **Ping** WSDL operation.

3.1.4.11.1.1 PingRequest

The request **WSDL message** for the **Ping** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/ping
```

The **SOAP body** contains the **PingRequest** element.

3.1.4.11.1.2 PingResponse

The response **WSDL message** for the **Ping** **WSDL operation**.

The **SOAP body** contains the **PingResponse** element.

3.1.4.11.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
PingRequest	The input data for the **Ping** **WSDL operation**.
PingResponse	The result data for the **Ping** WSDL operation.

3.1.4.11.2.1 PingRequest

The **PingRequest** element specifies the input data for the **Ping** **WSDL operation**.

```
<xs:element name="PingRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.11.2.2 PingResponse

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The **PingResponse** element specifies the result data for the **Ping** **WSDL operation**.

```
<xs:element name="PingResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Count" type="xs:int"/>
      <xs:element minOccurs="0" name="Received" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="Responded" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Count: An integer value containing the count of **Ping** operations the protocol server has performed.

Received: A **dateTime** value specifying when the protocol server began the **Ping** operation after receiving the **PingRequest** **WSDL message**.

Responded: A **dateTime** value specifying when the protocol server ended the **Ping** operation before returning the **PingResponse** WSDL message.

3.1.4.11.3 Complex Types

None.

3.1.4.11.4 Simple Types

None.

3.1.4.11.5 Attributes

None.

3.1.4.11.6 Groups

None.

3.1.4.11.7 Attribute Groups

None.

3.1.4.12 SubmitJob

Marks a **conversion job** as submitted to specify that all **conversion groups** in a conversion job have been added.

The following is the **WSDL** port type specification of the **SubmitJob** **WSDL operation**.

```
<wsdl:operation name="SubmitJob" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
name="SubmitJobRequest" message="tns:SubmitJobRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
name="SubmitJobResponse" message="tns:SubmitJobResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication_SubmitJob_ReadOnlyFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

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```
</wsdl:operation>
```

The protocol client sends a **SubmitJobRequest** request **WSDL message** to mark a conversion job as submitted to specify that all conversion groups in the conversion job have been added.

The protocol server MUST respond with a **SubmitJobResponse** response WSDL message.

3.1.4.12.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
SubmitJobRequest	The request WSDL message for the **SubmitJob** **WSDL operation**.
SubmitJobResponse	The response WSDL message for the **SubmitJob** WSDL operation.

3.1.4.12.1.1 SubmitJobRequest

The request **WSDL message** for the **SubmitJob** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/submitJob
```

The **SOAP body** contains the **SubmitJobRequest** element.

3.1.4.12.1.2 SubmitJobResponse

The response **WSDL message** for the **SubmitJob** **WSDL operation**.

The **SOAP body** contains the **SubmitJobResponse** element.

3.1.4.12.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
SubmitJobRequest	The input data for the **SubmitJob** **WSDL operation**.
SubmitJobResponse	The result data for the **SubmitJob** WSDL operation.

3.1.4.12.2.1 SubmitJobRequest

The **SubmitJobRequest** element specifies the input data for the **SubmitJob** **WSDL operation**.

```
<xs:element name="SubmitJobRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```


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```
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section 2.2.3.2) element identifying the **conversion job** to mark as submitted.

3.1.4.12.2.2 SubmitJobResponse

The **SubmitJobResponse** element specifies the result data for the **SubmitJob** **WSDL operation**.

```
<xs:element name="SubmitJobResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.12.3 Complex Types

None.

3.1.4.12.4 Simple Types

None.

3.1.4.12.5 Attributes

None.

3.1.4.12.6 Groups

None.

3.1.4.12.7 Attribute Groups

None.

3.1.4.13 AddSyncJob

Adds an **immediate conversion job** from a source file path and a destination file path.<9>

The following is the **WSDL** port type specification of the **AddSyncJob** **WSDL operation**.

```
<wsdl:operation name="AddSyncJob" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob"
name="AddSyncJobRequest" message="tns:AddSyncJobRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response"
name="AddSyncJobResponse" message="tns:AddSyncJobResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **AddSyncJobRequest** request **WSDL message** to create an immediate conversion job.

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The protocol server MUST initiate the process of converting the file at the location specified by the **inputUrl** to a new file at the location specified by the **outputUrl**. The protocol server MUST respond with an **AddSyncJobResponse** response WSDL message.

3.1.4.13.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
AddSyncJobRequest	The request WSDL message for the **AddSyncJob** **WSDL operation**.
AddSyncJobResponse	The response WSDL message for the **AddSyncJob** WSDL operation.

3.1.4.13.1.1 AddSyncJobRequest

The request **WSDL message** for the **AddSyncJob** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob
```

The **SOAP body** contains the **AddSyncJobRequest** element.

3.1.4.13.1.2 AddSyncJobResponse

The response **WSDL message** for the **AddSyncJob** **WSDL operation**.

The **SOAP body** contains the **AddSyncJobResponse** element.

3.1.4.13.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
AddSyncJobRequest	The input data for the **AddSyncJob** **WSDL operation**.
AddSyncJobResponse	The result data for the **AddSyncJob** WSDL operation.

3.1.4.13.2.1 AddSyncJobRequest

The **AddSyncJobRequest** element specifies the input data for the **AddSyncJob** **WSDL operation**.

```
<xs:element name="AddSyncJobRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
```

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```
      <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
      <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="inputUrl" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="outputUrl" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section 2.2.3.2) element identifying the **immediate conversion job**.

PartitionId: A **PartitionId** (section 2.2.3.3) element identifying the **partition** of the immediate conversion job.

Settings: An optional **ConversionJobSettings** (section 2.2.4.2) element that provides a collection of preferred settings for the immediate conversion job.

UserToken: A **UserToken** (section 2.2.3.4) element that provides user credentials for accessing the input and output file in the immediate conversion job.

inputUrl: A string value that specifies the full input path of the immediate conversion job.

outputUrl: A string value that specifies the full output path of the immediate conversion job.

3.1.4.13.2.2 AddSyncJobResponse

The **AddSyncJobResponse** element specifies the result data for the **AddSyncJob** **WSDL operation**.

```
<xs:element name="AddSyncJobResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ErrorCode: An integer value specifying the error code of a failed or incomplete **immediate conversion job**. If the immediate conversion job has failed or is not complete, the protocol server MUST write a non-null value. The **ErrorCode** can be, but is not restricted to, the following values.

Value	Description
null	The immediate conversion job is complete and has succeeded.
-1	Unknown Failure
0	The immediate conversion job is still being processed.
1	Input file was not found.
2	Insufficient permissions to download the input file.
3	Usertoken used for conversion expired before the input file could be downloaded.
4	Insufficient permissions to upload the converted file.
5	Usertoken used for conversion expired before the converted file could be uploaded.
6	The input file could not be downloaded for some unknown reason.

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Value	Description
7	The converted file could not be uploaded for some unknown reason.
9	Item assigned worker died.
10	Item exceeded the maximum conversion time.
11	The number of in-progress immediate conversion requests exceeds the limit specified by the administrator.
12	The administrator has specified that the server cannot accept synchronous conversion requests.

3.1.4.13.3 Complex Types

None.

3.1.4.13.4 Simple Types

None.

3.1.4.13.5 Attributes

None.

3.1.4.13.6 Groups

None.

3.1.4.13.7 Attribute Groups

None.

3.1.4.14 AddSyncStreamJob

Adds an **immediate conversion job** from a stream containing the input file.<10>

The following is the **WSDL** port type specification of the **AddSyncStreamJob** **WSDL operation**.

```
<wsdl:operation name="AddSyncStreamJob" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob"
name="AddSyncStreamJobRequest" message="tns:AddSyncStreamJobRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/respons
e" name="AddSyncStreamJobResponse" message="tns:AddSyncStreamJobResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **AddSyncStreamJobRequest** request **WSDL message** to create an immediate conversion job.

If the protocol server has received a complete input file, as determined by the **MoreBytesToReceive** member of the **AddSyncStreamJobRequest**, then it MUST initiate the conversion of the input file. The protocol client can retrieve the result either from the **OutputStreamInBytes** member of the

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AddSyncStreamJobResponse message, if provided by the protocol server, or by using the **GetSyncStreamOutputBytes** method (section 3.1.4.16).

The protocol server MUST respond with an **AddSyncStreamJobResponse** response WSDL message

3.1.4.14.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
AddSyncStreamJobRequest	The request WSDL message for the **AddSyncStreamJob** **WSDL operation**.
AddSyncStreamJobResponse	The response WSDL message for the **AddSyncStreamJob** WSDL operation.

3.1.4.14.1.1 AddSyncStreamJobRequest

The request **WSDL message** for the **AddSyncStreamJob** **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob
```

The **SOAP body** contains the **AddSyncStreamJobRequest** element.

3.1.4.14.1.2 AddSyncStreamJobResponse

The response **WSDL message** for the **AddSyncStreamJob** **WSDL operation**.

The **SOAP body** contains the **AddSyncStreamJobResponse** element.

3.1.4.14.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
AddSyncStreamJobRequest	The input data for the **AddSyncStreamJob** **WSDL operation**.
AddSyncStreamJobResponse	The result data for the **AddSyncStreamJob** WSDL operation.

3.1.4.14.2.1 AddSyncStreamJobRequest

The **AddSyncStreamJobRequest** element specifies the input data for the **AddSyncStreamJob** **WSDL operation**.

```
<xs:element name="AddSyncStreamJobRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="InputStreamInBytes" nillable="true"
type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
```

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```
      <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean"/>
      <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
      <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

InputStreamInBytes: The array of bytes of the input file for the **immediate conversion job**. If the protocol server has previously received an **AddSyncStreamJobRequest** message with the same **JobId** and with **MoreBytesToReceive** set to true, then the protocol server MUST append the bytes in **InputStreamInBytes** to the value of the **InputStreamInBytes** from the previous message.

The protocol server MUST treat the concatenated values of multiple **InputStreamInBytes** elements from multiple requests with the same **JobId** as a single file for purposes of conversion.

JobId: A **JobId** (section 2.2.3.2) element identifying the immediate conversion job.

MoreBytesToReceive: A **Boolean** value specifying whether there are more bytes for the input file.

If this is true, the protocol server MUST NOT initiate the conversion until the protocol client has called **AddSyncStreamJob** again with the same **JobId** and **MoreBytesToReceive** not set to true.

PartitionId: A **PartitionId** (section 2.2.3.3) element identifying the **partition** of the immediate conversion job.

Settings: An optional **ConversionJobSettings** (section 2.2.4.2) element that provides a collection of preferred settings for the immediate conversion job.

3.1.4.14.2.2 AddSyncStreamJobResponse

The **AddSyncStreamJobResponse** element specifies the result data for the **AddSyncStreamJob WSDL operation**.

```
<xs:element name="AddSyncStreamJobResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:int"/>
      <xs:element minOccurs="0" name="OutputStreamInBytes" nillable="true"
type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ErrorCode: An integer value specifying the error code of a failed **immediate conversion job**. If the immediate conversion job has failed, the protocol server MUST write a non-null value.

ErrorCode can be, but is not restricted to, the following values.

Value	Description
null	The immediate conversion job is successful.
-1	Unknown Failure
0	Not Failed. It is still being processed.
1	Input file was not found.

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Value	Description
2	Insufficient permissions to download the input file.
3	Usertoken used for conversion expired before the input file could be downloaded.
4	Insufficient permissions to upload the converted file.
5	Usertoken used for conversion expired before the converted file could be uploaded.
6	The input file could not be downloaded for some unknown reason.
7	The converted file could not be uploaded for some unknown reason.
9	Item assigned worker died.
10	Item exceeded the maximum conversion time.
11	The number of in-progress immediate conversion requests exceeds the limit specified by the administrator.
12	The administrator has specified that the server cannot accept synchronous conversion requests.
13	Input stream cannot be loaded because of running out of memory or space.
14	Output stream cannot be saved because of running out of memory or space.

OutputStreamInBytes: An array of bytes that contains the output file.

If **ErrorCode** is null and **OuputStreamInBytes** is not null, then **OutputStreamInBytes** MUST contain the output file.

If **ErrorCode** is null and **OutputStreamInBytes** is null, then the protocol client can obtain the output file with the **GetSyncStreamOutputBytes** (section 3.1.4.16) WSDL operation.

3.1.4.14.3 Complex Types

None.

3.1.4.14.4 Simple Types

None.

3.1.4.14.5 Attributes

None.

3.1.4.14.6 Groups

None.

3.1.4.14.7 Attribute Groups

None.

3.1.4.15 BatchGetSyncJobStatus

Get the status of a number of **immediate conversion jobs**.<11>

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The following is the **WSDL** port type specification of the **BatchGetSyncJobStatus WSDL operation**.

```
<wsdl:operation name="BatchGetSyncJobStatus" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus"
name="BatchGetSyncJobStatusRequest" message="tns:BatchGetSyncJobStatusRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/respons
e" name="BatchGetSyncJobStatusResponse" message="tns:BatchGetSyncJobStatusResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **BatchGetSyncJobStatusRequest** request **WSDL message** to get the status of a number of immediate conversion jobs.

The protocol server MUST respond by sending a **BatchGetSyncJobStatusResponse** (section 3.1.4.15.2.2).

3.1.4.15.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
BatchGetSyncJobStatusRequest	The request WSDL message for the **BatchGetSyncJobStatus WSDL operation**.
BatchGetSyncJobStatusResponse	The response WSDL message for the **BatchGetSyncJobStatus** WSDL operation.

3.1.4.15.1.1 BatchGetSyncJobStatusRequest

The request **WSDL message** for the **BatchGetSyncJobStatus WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus
```

The **SOAP body** contains the **BatchGetSyncJobStatusRequest** element.

3.1.4.15.1.2 BatchGetSyncJobStatusResponse

The response **WSDL message** for the **BatchGetSyncJobStatus WSDL operation**.

The **SOAP body** contains the **BatchGetSyncJobStatusResponse** element.

3.1.4.15.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

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Element	Description
BatchGetSyncJobStatusRequest	The input data for the **BatchGetSyncJobStatus** **WSDL operation**.
BatchGetSyncJobStatusResponse	The result data for the **BatchGetSyncJobStatus** WSDL operation.

3.1.4.15.2.1 BatchGetSyncJobStatusRequest

The **BatchGetSyncJobStatusRequest** element specifies the input data for the **BatchGetSyncJobStatus** **WSDL operation**.

```
<xs:element name="BatchGetSyncJobStatusRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="JobIds" nillable="true" type="q32:ArrayOfunsignedLong"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobIds: An array of **JobId** (section 2.2.3.2)

3.1.4.15.2.2 BatchGetSyncJobStatusResponse

The **BatchGetSyncJobStatusResponse** element specifies the result data for the **BatchGetSyncJobStatus** **WSDL operation**.

```
<xs:element name="BatchGetSyncJobStatusResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q28="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="ErrorCodes" nillable="true" type="q28:ArrayOfNullableOfint"/>
      <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="JobIds" nillable="true" type="q32:ArrayOfunsignedLong"/>
      <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean"/>
      <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="OutputStreamsInBytes" nillable="true" type="q32:ArrayOfbase64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ErrorCodes: An array of **ErrorCode**, which is an integer value specifying the error code of a failed or incomplete **immediate conversion job**. If the immediate conversion job has failed or is incomplete, the protocol server MUST write a non-null value. **ErrorCodes'** sequence MUST be aligned with the sequence of the array of **JobIds**.

ErrorCode Can be, but is not restricted to, the following values.

Value	Description
null	The immediate conversion job is successful.
-1	Unknown Failure
0	The immediate conversion job is incomplete.
1	Input file was not found in the SharePoint library.

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Value	Description
2	Insufficient permissions to download the input file.
3	Usertoken used for conversion expired before the input file could be downloaded.
4	Insufficient permissions to upload the converted file.
5	Usertoken used for conversion expired before the converted file could be uploaded.
6	The input file could not be downloaded for some unknown reason.
7	The converted file could not be uploaded for some unknown reason.
9	Item assigned worker died.
10	Item exceeded the maximum conversion time.
11	The number of in-progress immediate conversion requests exceeds the limit specified by the administrator.
12	The administrator has specified that the server cannot accept synchronous conversion requests.
13	Input stream cannot be loaded because of running out of memory or space.
14	Output stream cannot be saved because of running out of memory or space.

JobIds: An array of **JobId** (section 2.2.3.2). This array is copied from the **jobIds** in **BatchGetSyncJobStatusRequest**.

MoreBytesToReceive: A **Boolean** value that is set to true when the total size of the output files is too large to send in one **BatchGetSyncJobStatusResponse**. When the value of **MoreBytesToReceive** is set to true it indicates that there are some output files that have been converted, but not sent back in this **BatchGetSyncJobStatusResponse** element.

OutputStreamsInBytes: This is a two-dimensional array of bytes. The first dimension matches the **JobIds** array. The second dimension of bytes is the output file's byte stream. The protocol server MUST NOT return a byte stream for conversion jobs initiated with the **AddSyncJob** WSDL operation (section 3.1.4.13), only for those initiated with the **AddSyncStreamJob** WSDL operation (section 3.1.4.14).

3.1.4.15.3 Complex Types

The following table summarizes the **XML schema** complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfbase64Binary	Array of **base64Binary**
ArrayOfNullableOfint	Array of nullable **int**
ArrayOfunsignedLong	Array of **unsignedlong**

3.1.4.15.3.1 ArrayOfNullableOfint

Namespace: http://schemas.datacontract.org/2004/07/System

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Array of nullable **int**

```
<xs:complexType name="ArrayOfNullableOfint" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="int" nillable="true"
type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

int: integer

3.1.4.15.3.2 ArrayOfbase64Binary

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

Array of **base64Binary**

```
<xs:complexType name="ArrayOfbase64Binary" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
```

base64Binary: Array of bytes

3.1.4.15.3.3 ArrayOfunsignedLong

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

Array of **unsignedlong**

```
<xs:complexType name="ArrayOfunsignedLong" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedLong"
type="xs:unsignedLong"/>
  </xs:sequence>
</xs:complexType>
```

unsignedLong: an 8-byte, unsigned integer

3.1.4.15.4 Simple Types

None.

3.1.4.15.5 Attributes

None.

3.1.4.15.6 Groups

None.

3.1.4.15.7 Attribute Groups

None.

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3.1.4.16 GetSyncStreamOutputBytes

Retrieves the output file for the **immediate conversion job** that was submitted with the **AddSyncStreamJob** (section 3.1.4.14) **WSDL operation**.<12>

The following is the **WSDL** port type specification of the **GetSyncStreamOutputBytes** WSDL operation.

```
<wsdl:operation name="GetSyncStreamOutputBytes"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes
" name="GetSyncStreamOutputBytesRequest" message="tns:GetSyncStreamOutputBytesRequest"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes
/response" name="GetSyncStreamOutputBytesResponse"
message="tns:GetSyncStreamOutputBytesResponse"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **GetSyncStreamOutputBytesRequest** request **WSDL message** to retrieve the byte representation of the output file for the immediate conversion job.

The protocol server MUST respond with a **GetSyncStreamOutputBytesResponse** response WSDL message.

3.1.4.16.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
GetSyncStreamOutputBytesRequest	The request WSDL message for the **GetSyncStreamOutputBytes WSDL operation**.
GetSyncStreamOutputBytesResponse	The response WSDL message for the **GetSyncStreamOutputBytes** WSDL operation.

3.1.4.16.1.1 GetSyncStreamOutputBytesRequest

The request **WSDL message** for the **GetSyncStreamOutputBytes WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes
```

The **SOAP body** contains the **GetSyncStreamOutputBytesRequest** element.

3.1.4.16.1.2 GetSyncStreamOutputBytesResponse

The response **WSDL message** for the **GetSyncStreamOutputBytes WSDL operation**.

The **SOAP body** contains the **GetSyncStreamOutputBytesResponse** element.

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3.1.4.16.2 Elements

The following table summarizes the **XML schema** element definitions that are specific to this operation.

Element	Description
GetSyncStreamOutputBytesRequest	The input data for the **GetSyncStreamOutputBytes WSDL operation**.
GetSyncStreamOutputBytesResponse	The result data for the **GetSyncStreamOutputBytes** WSDL operation.

3.1.4.16.2.1 GetSyncStreamOutputBytesRequest

The **GetSyncStreamOutputBytesRequest** element specifies the input data for the **GetSyncStreamOutputBytes WSDL operation**.

```
<xs:element name="GetSyncStreamOutputBytesRequest"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="BytesReceived" type="xs:int"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

BytesReceived: The integer value specifying the number of bytes of the output file that the protocol client has already received.

JobId: A **JobId** (section 2.2.3.2) element identifying the conversion job to which the output file belongs.

3.1.4.16.2.2 GetSyncStreamOutputBytesResponse

The **GetSyncStreamOutputBytesResponse** element specifies the result data for the **GetSyncStreamOutputBytes WSDL operation**.

```
<xs:element name="GetSyncStreamOutputBytesResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean"/>
      <xs:element minOccurs="0" name="OutputStreamBytes" nillable="true"
type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

MoreBytesToReceive: The **Boolean** value specifying whether there are additional bytes that need to be sent to the protocol client. If **MoreBytesToReceive** is false and this is the first response from the protocol server, **OutputStreamBytes** MUST contain the whole output file. If **MoreBytesToReceive** is false and this is not the first response from the protocol server, **OutputStreamBytes** MUST contain the last set of bytes of the output file.

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OutputStreamBytes: The array of bytes containing part of the output file, beginning at the offset specified in the **BytesReceived** member of the **GetSyncStreamOutputBytesRequest**. The protocol server MUST set it to NULL if there is no stream available for the **JobId** that was sent in the **GetSyncStreamOutputBytesRequest** message or if **BytesReceived** specifies an offset larger than the size of the output file.

3.1.4.16.3 Complex Types

None.

3.1.4.16.4 Simple Types

None.

3.1.4.16.5 Attributes

None.

3.1.4.16.6 Groups

None.

3.1.4.16.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

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4 Protocol Examples

4.1 Creating a Conversion Job

This example demonstrates how a protocol client adds a new conversion job to the queue.

The protocol client has a folder of five documents to convert to PDF. Additionally, the protocol client has a sixth document to convert to PDF that is in a separate folder. The conversion job will contain two conversion groups, with the first conversion group containing the five documents in the same folder and the second conversion group containing the sixth document.

The following table shows the full input URLs, conversion group id and conversion item id of the six conversion items.

Group Id	Item Id	Full Input URL
1	1	http://server/LoremIpsum/Aenean nec.docx
1	2	http://server/LoremIpsum/Fusce aliquet.docx
1	3	http://server/LoremIpsum/Lorem ipsum.docx
1	4	http://server/LoremIpsum/Nunc viverra.docx
1	5	http://server/LoremIpsum/Pellentesque.docx
2	1	http://server/Other/Other.docx

The following table shows the full output URLs, conversion group id and conversion item id of the six conversion items.

Group Id	Item Id	Full Output URL
1	1	http://server/Archive/Aenean nec.pdf
1	2	http://server/Archive/Fusce aliquet.pdf
1	3	http://server/Archive/Lorem ipsum.pdf
1	4	http://server/Archive/Nunc viverra.pdf
1	5	http://server/Archive/Pellentesque.pdf
2	1	http://server/Archive/Other.pdf

The protocol client creates a unique conversion job identifier with the value 11181981853491788161.

4.1.1 Adding the Job

The protocol client then sends the following **AddJob** request **WSDL message**:

```
<AddJobRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
  xmlns:b="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <JobId>11181981853491788161</JobId>
  <Name>Protocol example</Name>
```

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```
  <PartitionId i:nil="true" />
  <Settings>
    <b:AddThumbnail>false</b:AddThumbnail>
    <b:CompatibilityMode>MaintainCurrentSetting</b:CompatibilityMode>
    <b:DoNotEmbedSystemFonts>true</b:DoNotEmbedSystemFonts>
    <b:EmbedFonts>false</b:EmbedFonts>
    <b:FixedFormatSettings>
      <b:BalloonState>OnlyCommentsAndFormatting</b:BalloonState>
      <b:BitmapEmbeddedFonts>true</b:BitmapEmbeddedFonts>
      <b:Bookmarks>None</b:Bookmarks>
      <b:IncludeDocumentProperties>true</b:IncludeDocumentProperties>
      <b:IncludeDocumentStructure>true</b:IncludeDocumentStructure>
      <b:OutputQuality>Standard</b:OutputQuality>
      <b:UsePDFA>false</b:UsePDFA>
    </b:FixedFormatSettings>
    <b:MarkupView>Comments Ink Text Formatting</b:MarkupView>
    <b:OutputFormat>PDF</b:OutputFormat>
    <b:OutputSaveBehavior>AppendIfPossible</b:OutputSaveBehavior>
    <b:RevisionState>FinalShowingMarkup</b:RevisionState>
    <b:SubsetEmbeddedFonts>false</b:SubsetEmbeddedFonts>
    <b:UpdateFields>false</b:UpdateFields>
  </Settings>
  <UserToken i:nil="true" />
</AddJobRequest>
```

The protocol server receives the request and creates the **conversion job**. The protocol server then sends the following **AddJob** response WSDL message:

```
<AddJobResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addJob" />
```

4.1.2 Adding the First Group

The protocol client then sends the following **AddGroup** request **WSDL message**:

```
<AddGroupRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
  xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <GroupId>1</GroupId>
  <InputRoot>http://server/LoremIpsum/</InputRoot>
  <Items>
    <b:string>Aenean%20nec.docx</b:string>
    <b:string>Fusce%20aliquet.docx</b:string>
    <b:string>Lorem%20ipsum.docx</b:string>
    <b:string>Nunc%20viverra.docx</b:string>
    <b:string>Pellentesque.docx</b:string>
  </Items>
  <JobId>11181981853491788161</JobId>
  <OutputRoot>http://server/Archive/</OutputRoot>
</AddGroupRequest>
```

The protocol server receives the request and adds the **conversion group** to the **conversion job**. The protocol server then sends the following **AddGroup** response WSDL message:

```
<AddGroupResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response" />
```


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4.1.3 Adding the Second Group

The protocol client then sends the following **AddItems** request **WSDL message**:

```
<AddItemsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
  xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <GroupId>2</GroupId>
  <InputUrls>
    <b:string>http://server/Other/Other.docx</b:string>
  </InputUrls>
  <JobId>11181981853491788161</JobId>
  <OutputUrls>
    <b:string>http://server/Archive/Other.pdf</b:string>
  </OutputUrls>
</AddItemsRequest>
```

The protocol server receives the request and adds the **conversion group** to the **conversion job**. The protocol server then sends the following **AddItems** response WSDL message:

```
<AddItemsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response" />
```

4.1.4 Submitting the Job

The protocol client then sends the following **SubmitJob** request **WSDL message**:

```
<SubmitJobRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/submitJob">
  <JobId>11181981853491788161</JobId>
</SubmitJobRequest>
```

The protocol server receives the request and records that the **conversion group** has been submitted. The protocol server then sends the following **SubmitJob** response WSDL message:

```
<SubmitJobResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response" />
```

4.2 Getting the Status of a Conversion Job

This example demonstrates how a protocol client gets an existing conversion job and retrieves its status. This example uses the conversion job defined in section 4.1 with an conversion job id of `11181981853491788161`.

4.2.1 Getting the Jobs

The protocol client sends the following **GetJobs** request **WSDL message**:

```
<GetJobsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <ActiveOnly>false</ActiveOnly>
  <PartitionId i:nil="true" />
  <SubmittedOnly>true</SubmittedOnly>
  <UserToken i:nil="true" />
```


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```
</GetJobsRequest>
```

The protocol server receives the request and sends the following **GetJobs** response WSDL message:

```
<GetJobsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Jobs>
    <GetJobsJob>
      <CreateTime>2010-01-08T08:42:01.833</CreateTime>
      <JobId>16715329620902290694</JobId>
      <Name>A previous job</Name>
    </GetJobsJob>
    <GetJobsJob>
      <CancelTime>2010-01-10 10:17:27.553</CancelTime>
      <CreateTime>2010-01-10 10:16:26.653</CreateTime>
      <JobId>5718799996475903468</JobId>
      <Name>A canceled job</Name>
    </GetJobsJob>
    <GetJobsJob>
      <CreateTime>2010-01-12T11:19:49.83</CreateTime>
      <JobId>11181981853491788161</JobId>
      <Name>Protocol example</Name>
    </GetJobsJob>
  </Jobs>
</GetJobsResponse>
```

4.2.2 Getting the Job Status

The protocol client sends the following **GetJobStatus** request **WSDL message**:

```
<GetJobStatusRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <JobId>11181981853491788161</JobId>
  <PartitionId i:nil="true" />
</GetJobStatusRequest>
```

The protocol server receives the request and sends the following **GetJobStatus** response WSDL message:

```
<GetJobStatusResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response">
  <Canceled>0</Canceled>
  <Count>6</Count>
  <Failed>1</Failed>
  <InProgress>1</InProgress>
  <Name>Protocol example</Name>
  <NotStarted>1</NotStarted>
  <NotSubmitted>0</NotSubmitted>
  <Succeeded>3</Succeeded>
</GetJobStatusResponse>
```

This response tells the protocol client that the there are six **conversion item**s in the **conversion job**. Three have already succeeded, one has failed, one is in progress, and one has not started.

4.2.3 Getting the Groups

The protocol client sends the following **GetGroups** request **WSDL message**:

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```
<GetGroupsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <JobId>11181981853491788161</JobId>
  <PartitionId i:nil="true" />
</GetGroupsRequest>
```

The protocol server receives the request and sends the following **GetGroups** response WSDL message:

```
<GetGroupsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
  xmlns:b="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <CancelTime i:nil="true" />
  <CreateTime>2010-01-12T11:19:49.83</CreateTime>
  <Groups>
    <GetGroupsGroup>
      <Id>1</Id>
      <InputRoot>http://server/LoremIpsum/</InputRoot>
      <OutputRoot>http://server/Archive/</OutputRoot>
    </GetGroupsGroup>
    <GetGroupsGroup>
      <Id>2</Id>
    </GetGroupsGroup>
  </Groups>
  <NotSubmitted>false</NotSubmitted>
  <Settings>
    <b:AddThumbnail>false</b:AddThumbnail>
    <b:CompatibilityMode>MaintainCurrentSetting</b:CompatibilityMode>
    <b:DoNotEmbedSystemFonts>true</b:DoNotEmbedSystemFonts>
    <b:EmbedFonts>false</b:EmbedFonts>
    <b:FixedFormatSettings>
      <b:BalloonState>OnlyCommentsAndFormatting</b:BalloonState>
      <b:BitmapEmbeddedFonts>true</b:BitmapEmbeddedFonts>
      <b:Bookmarks>None</b:Bookmarks>
      <b:IncludeDocumentProperties>true</b:IncludeDocumentProperties>
      <b:IncludeDocumentStructure>true</b:IncludeDocumentStructure>
      <b:OutputQuality>Standard</b:OutputQuality>
      <b:UsePDFA>false</b:UsePDFA>
    </b:FixedFormatSettings>
    <b:MarkupView>Comments Ink Text Formatting</b:MarkupView>
    <b:OutputFormat>PDF</b:OutputFormat>
    <b:OutputSaveBehavior>AppendIfPossible</b:OutputSaveBehavior>
    <b:RevisionState>FinalShowingMarkup</b:RevisionState>
    <b:SubsetEmbeddedFonts>false</b:SubsetEmbeddedFonts>
    <b:UpdateFields>false</b:UpdateFields>
  </Settings>
</GetGroupsResponse>
```

This response tells the protocol client that there are two **conversion group**s. One group is made up of **conversion item**s that share a common root directory and the other is made up of conversion items that each specify their own full input and output URLs. The contents of the **Settings** element match those sent as part of the original **AddJob** request WSDL message in section 4.1.1.

4.2.4 Getting the Items in the First Group

The protocol client sends the following **GetItems** request **WSDL message**:

```
<GetItemsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Canceled>false</Canceled>
```


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```
  <Failed>true</Failed>
  <GroupId>1</GroupId>
  <InProgress>true</InProgress>
  <JobId>11181981853491788161</JobId>
  <NotStarted>true</NotStarted>
  <NotSubmitted>false</NotSubmitted>
  <PartitionId i:nil="true" />
  <Succeeded>true</Succeeded>
</GetItemsRequest>
```

The protocol server receives the request and sends the following **GetItems** response WSDL message:

```
<GetItemsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Items
    xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response">
    <GetItemsItem>
      <Id>1</Id>
      <InputFile>Aenean%20nec.docx</InputFile>
      <StartTime>2010-01-12T11:20:02.14</StartTime>
      <StopTime>2010-01-12T11:20:06.977</StopTime>
    </GetItemsItem>
    <GetItemsItem>
      <ErrorCode>99</ErrorCode>
      <Id>2</Id>
      <InputFile>Fusce%20aliquet.docx</InputFile>
      <StartTime>2010-01-12T11:20:02.14</StartTime>
      <StopTime>2010-01-12T11:20:07.15</StopTime>
    </GetItemsItem>
    <GetItemsItem>
      <Id>3</Id>
      <InputFile>Lorem%20ipsum.docx</InputFile>
      <StartTime>2010-01-12T11:20:02.14</StartTime>
      <StopTime>2010-01-12T11:20:07.29</StopTime>
    </GetItemsItem>
    <GetItemsItem>
      <Id>4</Id>
      <InputFile>Nunc%20viverra.docx</InputFile>
      <StartTime>2010-01-12T11:20:02.14</StartTime>
    </GetItemsItem>
    <GetItemsItem>
      <Id>5</Id>
      <InputFile>Pellentesque.docx</InputFile>
    </GetItemsItem>
  </Items>
</GetItemsResponse>
```

Of the five **conversion item**s in this **conversion group**, two have succeeded, one has failed with an error code of 99, one is in progress and one has not started.

4.2.5 Getting the Items in the Second Group

The protocol client sends the following **GetItems** request **WSDL message**:

```
<GetItemsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Canceled>false</Canceled>
  <Failed>true</Failed>
  <GroupId>2</GroupId>
  <InProgress>true</InProgress>
  <JobId>11181981853491788161</JobId>
```


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```
  <NotStarted>true</NotStarted>
  <NotSubmitted>false</NotSubmitted>
  <PartitionId i:nil="true" />
  <Succeeded>true</Succeeded>
</GetItemsRequest>
```

The protocol server receives the request and sends the following **GetItems** response WSDL message:

```
<GetItemsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Items
    xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response">
    <GetItemsItem>
      <Id>1</Id>
      <InputFile>http://server/Other/Other.docx</InputFile>
      <OutputFile>http://server/Archive/Other.pdf</OutputFile>
      <StartTime>2010-01-12T11:21:01.387</StartTime>
      <StopTime>2010-01-12T11:21:01.69</StopTime>
    </GetItemsItem>
  </Items>
</GetItemsResponse>
```

This is one **conversion item** in this **conversion group** and it has successfully converted.

4.3 Creating an Immediate Conversion Job

This example demonstrates how a protocol client submits a new **immediate conversion job**.

There are two scenarios for creating an immediate conversion job. The first one is for when an input file is stored on the protocol server and the second one is for when an input file is stored on a non-server location to which the protocol client has access.

For the first scenario, the protocol client has the following input file URL, and desired output file URL to convert to PDF:

Input URL: http://server/Other/Other.docx

Output URL: http://server/Other/Other.pdf

The protocol client creates a unique conversion job identifier with the value 4077080388989660114.

For the second scenario, the protocol client has the following base-64 encoded byte stream as an input file: UEsDBBQABgAIAAAAI, and it requests the input file stream to be converted to [MS-DOC] format. It creates a unique conversion job identifier with the value 3508186235466465020.

4.3.1 The input file is stored on the protocol server

The protocol client sends the following **AddSyncJobRequest** **WSDL message**:

```
<AddSyncJobRequest
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob">
  <JobId>4077080388989660114</JobId>
  <PartitionId i:nil="true"
     xmlns:i="http://www.w3.org/2001/XMLSchema-instance"></PartitionId>
  <Settings
xmlns:b="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
            xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <b:AddThumbnail>false</b:AddThumbnail>
    <b:CompatibilityMode>MaintainCurrentSetting</b:CompatibilityMode>
```


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```
    <b:DoNotEmbedSystemFonts>true</b:DoNotEmbedSystemFonts>
    <b:EmbedFonts>false</b:EmbedFonts>
    <b:FixedFormatSettings>
      <b:BalloonState>OnlyCommentsAndFormatting</b:BalloonState>
      <b:BitmapEmbeddedFonts>true</b:BitmapEmbeddedFonts>
      <b:Bookmarks>None</b:Bookmarks>
      <b:IncludeDocumentProperties>true</b:IncludeDocumentProperties>
      <b:IncludeDocumentStructure>true</b:IncludeDocumentStructure>
      <b:OutputQuality>Standard</b:OutputQuality>
      <b:UsePDFA>false</b:UsePDFA>
    </b:FixedFormatSettings>
    <b:MarkupView>Comments Ink Text Formatting</b:MarkupView>
    <b:OutputFormat>PDF</b:OutputFormat>
    <b:OutputSaveBehavior>AppendIfPossible</b:OutputSaveBehavior>
    <b:RevisionState>FinalShowingMarkup</b:RevisionState>
    <b:SubsetEmbeddedFonts>false</b:SubsetEmbeddedFonts>
    <b:UpdateFields>false</b:UpdateFields>
  </Settings>
  <UserToken>S6JG1AAAAAB9</UserToken>
<inputUrl>http://server/Other/Other.docx</inputUrl>
<outputUrl>http://server/Other/Other.pdf</outputUrl>
</AddSyncJobRequest>
```

The protocol server initiates the conversion of Other.docx to Other.pdf. It responds with the following **AddSyncJobResponse** WSDL message

```
<AddSyncJobResponse
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response"><ErrorCod
e>0</ErrorCode>
</AddSyncJobResponse>
```

If the **ErrorCode** is not 0, then the protocol client is finished.

If the **ErrorCode** is 0, which is true in our example, then the conversion job has not finished yet. The protocol client sends a **BatchGetSyncJobStatusRequest** WSDL message to the protocol server. The protocol client could group this **JobId** with those of other pending jobs into a single request, but there is only one job in this example.

```
<BatchGetSyncJobStatusRequest
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus">
<JobIds xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<b:unsignedLong>4077080388989660114</b:unsignedLong>
</JobIds>
</BatchGetSyncJobStatusRequest>
```

The protocol server stores the result of the conversion in the given output URL and responds with the following **BatchGetSyncJobStatusResponse** to the protocol client.

```
<BatchGetSyncJobStatusResponse
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response">
<ErrorCodes xmlns:d4p1="http://schemas.datacontract.org/2004/07/System"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<d4p1:int i:nil="true"></d4p1:int>
</ErrorCodes>
<JobIds xmlns:d4p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<d4p1:unsignedLong>4077080388989660114</d4p1:unsignedLong>
</JobIds>
<MoreBytesToReceive>false</MoreBytesToReceive>
```


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```
<OutputStreamsInBytes xmlns:d4p1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<d4p1:base64Binary i:nil="true"></d4p1:base64Binary>
</OutputStreamsInBytes>
</BatchGetSyncJobStatusResponse>
```

The first element of the **ErrorCodes** array is null, which specifies that the conversion has finished successfully. The first entry of **OutputStreamsInBytes** is null because this conversion is not stream-based. At this point, the protocol client can retrieve Other.pdf from the output URL through normal means.

4.3.2 The input file is stored on a non-server location

The protocol client sends the following **AddSyncStreamJobRequest** **WSDL message** to the protocol server:

```
<AddSyncStreamJobRequest
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob">
  <InputStreamInBytes>UEsDBBQABgAIAAAAI</InputStreamInBytes>
  <JobId>3508186235466465020</JobId>
  <MoreBytesToReceive>true</MoreBytesToReceive>
  <PartitionId i:nil="true"
     xmlns:i="http://www.w3.org/2001/XMLSchema-instance"></PartitionId>
  <Settings
xmlns:b=http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <b:AddThumbnail>false</b:AddThumbnail>
  <b:CompatibilityMode>MaintainCurrentSetting</b:CompatibilityMode>
  <b:DoNotEmbedSystemFonts>true</b:DoNotEmbedSystemFonts>
  <b:EmbedFonts>false</b:EmbedFonts>
  <b:FixedFormatSettings>
  <b:BalloonState>OnlyCommentsAndFormatting</b:BalloonState>
  <b:BitmapEmbeddedFonts>true</b:BitmapEmbeddedFonts>
  <b:Bookmarks>None</b:Bookmarks>
  <b:IncludeDocumentProperties>true</b:IncludeDocumentProperties>
  <b:IncludeDocumentStructure>true</b:IncludeDocumentStructure>
  <b:OutputQuality>Standard</b:OutputQuality>
    <b:UsePDFA>false</b:UsePDFA>
  </b:FixedFormatSettings>
  <b:MarkupView>Comments Ink Text Formatting</b:MarkupView>
  <b:OutputFormat>Document97</b:OutputFormat>
  <b:OutputSaveBehavior>AppendIfPossible</b:OutputSaveBehavior>
  <b:RevisionState>FinalShowingMarkup</b:RevisionState>
  <b:SubsetEmbeddedFonts>false</b:SubsetEmbeddedFonts>
  <b:UpdateFields>false</b:UpdateFields>
  </Settings>
</AddSyncStreamJobRequest>
```

The protocol server responds with the following **AddSyncStreamJobResponse** WSDL message

```
<AddSyncStreamJobResponse
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/response">
  <ErrorCode i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-   instance"></ErrorCode>
  <OutputStreamInBytes i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-
instance"></OutputStreamInBytes>
</AddSyncStreamJobResponse>
```

If the **ErrorCode** is not 0, then the protocol client is finished.

In our case, the **ErrorCode** is null, which means the job finished successfully. If **OutputStreamInBytes** is not null, then this is the complete output file stream. If it is null, then the

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protocol client needs to send **GetSyncStreamOutputBytes** for the remaining pieces of the output file stream. In our case, the protocol client sends the following **GetSyncStreamOutputBytesRequest**

```
<GetSyncStreamOutputBytesRequest
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes">
  <BytesReceived>0</BytesReceived>
  <JobId>3508186235466465020</JobId>
</GetSyncStreamOutputBytesRequest>
```

The protocol server responds with the following **GetSyncStreamOutputBytesResponse**

```
<GetSyncStreamOutputBytesResponse
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/respo
nse">
  <MoreBytesToReceive>false</MoreBytesToReceive>
  <OutputStreamBytes>0M8R4KGxGuEAAAAAAAAAAAAAAAAAAAAAP+8/4</OutputStreamBytes>
</GetSyncStreamOutputBytesResponse>
```

If **MoreBytesToReceive** attribute in **GetSyncStreamOutputBytesResponse** is true, then the protocol client needs to keep sending **GetSyncStreamOutputBytesRequest** with the correct **BytesReceived** attribute, until **MoreBytesToReceive** in **GetSyncStreamOutputBytesResponse** becomes false.

Preliminary

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5 Security

5.1 Security Considerations for Implementers

This protocol does not introduce any additional security considerations beyond those that apply to its underlying protocols.

5.2 Index of Security Parameters

Security Parameter	Section
UserToken	2.2.3.4

Preliminary

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6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/service"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/service"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema
xmlns:tns2="http://schemas.microsoft.com/office/server/word/2009/08/service/Imports"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/service/Imports">
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"/
>
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/addItems"/>
      <xs:import namespace="http://schemas.microsoft.com/office/server/word/2009/08/addJob"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/response"
/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"/>
      <xs:import namespace="http://schemas.microsoft.com/office/server/word/2009/08/getId"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getItems"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus"/>
```


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```
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response"
/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes"/
>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/r
esponse"/>
      <xs:import namespace="http://schemas.microsoft.com/office/server/word/2009/08/ping"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/service"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="IConversionServiceApplication">
    <wsdl:operation name="Ping">
      <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping"
name="PingRequest" message="tns:PingRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
name="PingResponse" message="tns:PingResponse"/>
    </wsdl:operation>
    <wsdl:operation name="CancelJob">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
name="CancelJobRequest" message="tns:CancelJobRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
name="CancelJobResponse" message="tns:CancelJobResponse"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication_CancelJob_ReadOnlyFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetJobStatus">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
name="GetJobStatusRequest" message="tns:GetJobStatusRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
name="GetJobStatusResponse" message="tns:GetJobStatusResponse"/>
    </wsdl:operation>
    <wsdl:operation name="BatchGetSyncJobStatus">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus"
name="BatchGetSyncJobStatusRequest" message="tns:BatchGetSyncJobStatusRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/respons
e" name="BatchGetSyncJobStatusResponse" message="tns:BatchGetSyncJobStatusResponse"/>
    </wsdl:operation>
    <wsdl:operation name="AddSyncJob">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob"
name="AddSyncJobRequest" message="tns:AddSyncJobRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response"
name="AddSyncJobResponse" message="tns:AddSyncJobResponse"/>
    </wsdl:operation>
    <wsdl:operation name="AddSyncStreamJob">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob"
name="AddSyncStreamJobRequest" message="tns:AddSyncStreamJobRequest"/>
```


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```
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/respons
e" name="AddSyncStreamJobResponse" message="tns:AddSyncStreamJobResponse"/>
    </wsdl:operation>
    <wsdl:operation name="GetSyncStreamOutputBytes">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes
" name="GetSyncStreamOutputBytesRequest" message="tns:GetSyncStreamOutputBytesRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes
/response" name="GetSyncStreamOutputBytesResponse"
message="tns:GetSyncStreamOutputBytesResponse"/>
    </wsdl:operation>
    <wsdl:operation name="AddJob">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
name="AddJobRequest" message="tns:AddJobRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob/response"
name="AddJobResponse" message="tns:AddJobResponse"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication_AddJob_ReadOnlyFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddGroup">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
name="AddGroupRequest" message="tns:AddGroupRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="AddGroupResponse" message="tns:AddGroupResponse"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication AddGroup ReadOnlyFaultFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddItems">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
name="AddItemsRequest" message="tns:AddItemsRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="AddItemsResponse" message="tns:AddItemsResponse"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication AddItems ReadOnlyFaultFault FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SubmitJob">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
name="SubmitJobRequest" message="tns:SubmitJobRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
name="SubmitJobResponse" message="tns:SubmitJobResponse"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/readOnlyFault"
name="ReadOnlyFaultFault"
message="tns:IConversionServiceApplication_SubmitJob_ReadOnlyFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetJobs">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
name="GetJobsRequest" message="tns:GetJobsRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
name="GetJobsResponse" message="tns:GetJobsResponse"/>
    </wsdl:operation>
```


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```
    <wsdl:operation name="GetGroups">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
name="GetGroupsRequest" message="tns:GetGroupsRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
name="GetGroupsResponse" message="tns:GetGroupsResponse"/>
    </wsdl:operation>
    <wsdl:operation name="GetItems">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
name="GetItemsRequest" message="tns:GetItemsRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
name="GetItemsResponse" message="tns:GetItemsResponse"/>
    </wsdl:operation>
    <wsdl:operation name="ConvertBatch">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
name="ConvertBatchRequest" message="tns:ConvertBatchRequest"/>
    </wsdl:operation>
    <wsdl:operation name="GetId">
      <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId"
name="GetIdRequest" message="tns:GetIdRequest"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
name="GetIdResponse" message="tns:GetIdResponse"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="DefaultBinding_IConversionServiceApplication"
type="tns:IConversionServiceApplication">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="Ping">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/ping" style="document"/>
      <wsdl:input name="PingRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="PingResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="CancelJob">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
style="document"/>
      <wsdl:input name="CancelJobRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="CancelJobResponse">
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ReadOnlyFaultFault">
        <soap:fault use="literal" name="ReadOnlyFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetJobStatus">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
style="document"/>
      <wsdl:input name="GetJobStatusRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="GetJobStatusResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="BatchGetSyncJobStatus">
```


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```
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus"
style="document"/>
      <wsdl:input name="BatchGetSyncJobStatusRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="BatchGetSyncJobStatusResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddSyncJob">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob"
style="document"/>
      <wsdl:input name="AddSyncJobRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="AddSyncJobResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddSyncStreamJob">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob"
style="document"/>
      <wsdl:input name="AddSyncStreamJobRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="AddSyncStreamJobResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSyncStreamOutputBytes">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes"
style="document"/>
      <wsdl:input name="GetSyncStreamOutputBytesRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="GetSyncStreamOutputBytesResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddJob">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
style="document"/>
      <wsdl:input name="AddJobRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="AddJobResponse">
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ReadOnlyFaultFault">
        <soap:fault use="literal" name="ReadOnlyFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
style="document"/>
      <wsdl:input name="AddGroupRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="AddGroupResponse">
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ReadOnlyFaultFault">
        <soap:fault use="literal" name="ReadOnlyFaultFault" namespace=""/>
```


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```
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddItems">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
style="document"/>
      <wsdl:input name="AddItemsRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="AddItemsResponse">
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ReadOnlyFaultFault">
        <soap:fault use="literal" name="ReadOnlyFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SubmitJob">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
style="document"/>
      <wsdl:input name="SubmitJobRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="SubmitJobResponse">
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="ReadOnlyFaultFault">
        <soap:fault use="literal" name="ReadOnlyFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetJobs">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
style="document"/>
      <wsdl:input name="GetJobsRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="GetJobsResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroups">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
style="document"/>
      <wsdl:input name="GetGroupsRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="GetGroupsResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetItems">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
style="document"/>
      <wsdl:input name="GetItemsRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="GetItemsResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ConvertBatch">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
style="document"/>
      <wsdl:input name="ConvertBatchRequest">
        <soap:body use="literal"/>
```


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```
      </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="GetId">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getId" style="document"/>
      <wsdl:input name="GetIdRequest">
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output name="GetIdResponse">
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:message name="AddGroupRequest">
    <wsdl:part xmlns:q17="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
name="parameters" element="q17:AddGroupRequest"/>
  </wsdl:message>
  <wsdl:message name="AddGroupResponse">
    <wsdl:part
xmlns:q18="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="parameters" element="q18:AddGroupResponse"/>
  </wsdl:message>
  <wsdl:message name="AddItemsRequest">
    <wsdl:part xmlns:q19="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
name="parameters" element="q19:AddItemsRequest"/>
  </wsdl:message>
  <wsdl:message name="AddItemsResponse">
    <wsdl:part
xmlns:q18="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="parameters" element="q18:AddItemsResponse"/>
  </wsdl:message>
  <wsdl:message name="AddJobRequest">
    <wsdl:part xmlns:q15="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
name="parameters" element="q15:AddJobRequest"/>
  </wsdl:message>
  <wsdl:message name="AddJobResponse">
    <wsdl:part xmlns:q15="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
name="parameters" element="q15:AddJobResponse"/>
  </wsdl:message>
  <wsdl:message name="AddSyncJobRequest">
    <wsdl:part xmlns:q9="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob"
name="parameters" element="q9:AddSyncJobRequest"/>
  </wsdl:message>
  <wsdl:message name="AddSyncJobResponse">
    <wsdl:part
xmlns:q10="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response"
name="parameters" element="q10:AddSyncJobResponse"/>
  </wsdl:message>
  <wsdl:message name="AddSyncStreamJobRequest">
    <wsdl:part
xmlns:q11="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob"
name="parameters" element="q11:AddSyncStreamJobRequest"/>
  </wsdl:message>
  <wsdl:message name="AddSyncStreamJobResponse">
    <wsdl:part
xmlns:q12="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/response"
name="parameters" element="q12:AddSyncStreamJobResponse"/>
  </wsdl:message>
  <wsdl:message name="BatchGetSyncJobStatusRequest">
    <wsdl:part
xmlns:q7="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus"
name="parameters" element="q7:BatchGetSyncJobStatusRequest"/>
  </wsdl:message>
  <wsdl:message name="BatchGetSyncJobStatusResponse">
    <wsdl:part
xmlns:q8="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response"
name="parameters" element="q8:BatchGetSyncJobStatusResponse"/>
  </wsdl:message>
  <wsdl:message name="CancelJobRequest">
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    <wsdl:part xmlns:q3="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
name="parameters" element="q3:CancelJobRequest"/>
  </wsdl:message>
  <wsdl:message name="CancelJobResponse">
    <wsdl:part
xmlns:q4="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
name="parameters" element="q4:CancelJobResponse"/>
  </wsdl:message>
  <wsdl:message name="ConvertBatchRequest">
    <wsdl:part
xmlns:q29="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
name="parameters" element="q29:ConvertBatchRequest"/>
  </wsdl:message>
  <wsdl:message name="GetGroupsRequest">
    <wsdl:part xmlns:q25="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
name="parameters" element="q25:GetGroupsRequest"/>
  </wsdl:message>
  <wsdl:message name="GetGroupsResponse">
    <wsdl:part
xmlns:q26="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
name="parameters" element="q26:GetGroupsResponse"/>
  </wsdl:message>
  <wsdl:message name="GetIdRequest">
    <wsdl:part xmlns:q30="http://schemas.microsoft.com/office/server/word/2009/08/getId"
name="parameters" element="q30:GetIdRequest"/>
  </wsdl:message>
  <wsdl:message name="GetIdResponse">
    <wsdl:part
xmlns:q31="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
name="parameters" element="q31:GetIdResponse"/>
  </wsdl:message>
  <wsdl:message name="GetItemsRequest">
    <wsdl:part xmlns:q27="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
name="parameters" element="q27:GetItemsRequest"/>
  </wsdl:message>
  <wsdl:message name="GetItemsResponse">
    <wsdl:part xmlns:q27="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
name="parameters" element="q27:GetItemsResponse"/>
  </wsdl:message>
  <wsdl:message name="GetJobsRequest">
    <wsdl:part xmlns:q23="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
name="parameters" element="q23:GetJobsRequest"/>
  </wsdl:message>
  <wsdl:message name="GetJobsResponse">
    <wsdl:part
xmlns:q24="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
name="parameters" element="q24:GetJobsResponse"/>
  </wsdl:message>
  <wsdl:message name="GetJobStatusRequest">
    <wsdl:part
xmlns:q5="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
name="parameters" element="q5:GetJobStatusRequest"/>
  </wsdl:message>
  <wsdl:message name="GetJobStatusResponse">
    <wsdl:part
xmlns:q6="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
name="parameters" element="q6:GetJobStatusResponse"/>
  </wsdl:message>
  <wsdl:message name="GetSyncStreamOutputBytesRequest">
    <wsdl:part
xmlns:q13="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes"
name="parameters" element="q13:GetSyncStreamOutputBytesRequest"/>
  </wsdl:message>
  <wsdl:message name="GetSyncStreamOutputBytesResponse">
    <wsdl:part
xmlns:q14="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/r
esponse" name="parameters" element="q14:GetSyncStreamOutputBytesResponse"/>
  </wsdl:message>
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```
  <wsdl:message
name="IConversionServiceApplication_AddGroup_ReadOnlyFaultFault_FaultMessage">
    <wsdl:part name="detail" element="tns:ReadOnlyFault"/>
  </wsdl:message>
  <wsdl:message
name="IConversionServiceApplication AddItems ReadOnlyFaultFault FaultMessage">
    <wsdl:part name="detail" element="tns:ReadOnlyFault"/>
  </wsdl:message>
  <wsdl:message name="IConversionServiceApplication_AddJob_ReadOnlyFaultFault_FaultMessage">
    <wsdl:part name="detail" element="tns:ReadOnlyFault"/>
  </wsdl:message>
  <wsdl:message
name="IConversionServiceApplication_CancelJob_ReadOnlyFaultFault_FaultMessage">
    <wsdl:part name="detail" element="tns:ReadOnlyFault"/>
  </wsdl:message>
  <wsdl:message
name="IConversionServiceApplication SubmitJob ReadOnlyFaultFault FaultMessage">
    <wsdl:part name="detail" element="tns:ReadOnlyFault"/>
  </wsdl:message>
  <wsdl:message name="PingRequest">
    <wsdl:part xmlns:q1="http://schemas.microsoft.com/office/server/word/2009/08/ping"
name="parameters" element="q1:PingRequest"/>
  </wsdl:message>
  <wsdl:message name="PingResponse">
    <wsdl:part
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
name="parameters" element="q2:PingResponse"/>
  </wsdl:message>
  <wsdl:message name="SubmitJobRequest">
    <wsdl:part xmlns:q21="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
name="parameters" element="q21:SubmitJobRequest"/>
  </wsdl:message>
  <wsdl:message name="SubmitJobResponse">
    <wsdl:part
xmlns:q22="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
name="parameters" element="q22:SubmitJobResponse"/>
  </wsdl:message>
</wsdl:definitions>
```

Prelim

7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07 /Microsoft.Office.Word.Server.Conversions	tns1	7.1
http://schemas.microsoft.com/office/server/word/2009/08/getItems	q27	7.14
http://schemas.microsoft.com/office/server/word/2009/08/ping/response	q2	7.23
http://schemas.microsoft.com/office/server/word/2009/08/ping	q1	7.25
http://schemas.microsoft.com/office/server/word/2009/08/service	tns	7.35
http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response	q22	7.26
http://schemas.microsoft.com/office/server/word/2009/08/getItems/response	q20	7.12
http://schemas.microsoft.com/office/server/word/2009/08/getId	q30	7.11
http://schemas.microsoft.com/office/server/word/2009/08/getId/response	q31	7.10
http://schemas.microsoft.com/office/server/word/2009/08/getGroups	q25	7.9
http://schemas.microsoft.com/2003/10/Serialization/Arrays	q32	7.2
http://schemas.microsoft.com/2003/10/Serialization/	q16	7.13
http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response	q24	7.15
http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response	q18	7.24
http://schemas.microsoft.com/office/server/word/2009/08/addGroup	q17	7.29
http://schemas.microsoft.com/office/server/word/2009/08/addItems	q19	7.30
http://schemas.microsoft.com/office/server/word/2009/08/addJob	q15	7.31
http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response	q10	7.32
http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob	q9	7.33
http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob /response	q12	7.34
http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob	q11	7.3
http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response	q4	7.4
http://schemas.microsoft.com/office/server/word/2009/08/cancelJob	q3	7.5
http://schemas.microsoft.com/office/server/word/2009/08/getJobs	q23	7.16
http://schemas.microsoft.com/office/server/word/2009/08 /conversionJobSettings	q33	7.6
http://schemas.microsoft.com/office/server/word/2009/08/convertBatch	q29	7.7
http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response	q26	7.8
http://schemas.microsoft.com/office/server/word/2009/08/submitJob	q21	7.27
http://schemas.datacontract.org/2004/07/System	q28	7.28

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Schema name	Prefix	Section
http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus /response	q6	7.17
http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus	q5	7.18
http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus /response	q8	7.19
http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus	q7	7.20
http://schemas.microsoft.com/office/server/word/2009/08 /getSyncStreamOutputBytes/response	q14	7.21
http://schemas.microsoft.com/office/server/word/2009/08 /getSyncStreamOutputBytes	q13	7.22

For ease of implementation, the following sections provide the full XML schema for this protocol.

7.1 http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:simpleType name="CompatibilityMode">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Word2003"/>
      <xs:enumeration value="Word2007"/>
      <xs:enumeration value="Word2010"/>
      <xs:enumeration value="Word2013"/>
      <xs:enumeration value="MaintainCurrentSetting"/>
      <xs:enumeration value="Current"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="CompatibilityMode" nillable="true" type="tns1:CompatibilityMode"/>
  <xs:simpleType name="BalloonState">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AlwaysUse"/>
      <xs:enumeration value="Inline"/>
      <xs:enumeration value="OnlyCommentsAndFormatting"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="BalloonState" nillable="true" type="tns1:BalloonState"/>
  <xs:simpleType name="FixedFormatBookmark">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None"/>
      <xs:enumeration value="Headings"/>
      <xs:enumeration value="Bookmarks"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="FixedFormatBookmark" nillable="true" type="tns1:FixedFormatBookmark"/>
  <xs:simpleType name="FixedFormatQuality">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Standard"/>
      <xs:enumeration value="Minimum"/>
    </xs:restriction>
```


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```
  </xs:simpleType>
  <xs:element name="FixedFormatQuality" nillable="true" type="tns1:FixedFormatQuality"/>
  <xs:simpleType name="MarkupTypes">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="Comments"/>
          <xs:enumeration value="Ink"/>
          <xs:enumeration value="Text"/>
          <xs:enumeration value="Formatting"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:element name="MarkupTypes" nillable="true" type="tns1:MarkupTypes"/>
  <xs:simpleType name="SaveFormat">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Automatic"/>
      <xs:enumeration value="Document"/>
      <xs:enumeration value="DocumentMacroEnabled"/>
      <xs:enumeration value="Document97"/>
      <xs:enumeration value="Template"/>
      <xs:enumeration value="TemplateMacroEnabled"/>
      <xs:enumeration value="Template97"/>
      <xs:enumeration value="MHTML"/>
      <xs:enumeration value="PDF"/>
      <xs:enumeration value="RTF"/>
      <xs:enumeration value="XML"/>
      <xs:enumeration value="XPS"/>
      <xs:enumeration value="DocumentStrict"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="SaveFormat" nillable="true" type="tns1:SaveFormat"/>
  <xs:simpleType name="SaveBehavior">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AppendIfPossible"/>
      <xs:enumeration value="AlwaysOverwrite"/>
      <xs:enumeration value="AppendOnly"/>
      <xs:enumeration value="NeverOverwrite"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="SaveBehavior" nillable="true" type="tns1:SaveBehavior"/>
  <xs:simpleType name="RevisionState">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Final"/>
      <xs:enumeration value="FinalShowingMarkup"/>
      <xs:enumeration value="Original"/>
      <xs:enumeration value="OriginalShowingMarkup"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="RevisionState" nillable="true" type="tns1:RevisionState"/>
</xs:schema>
```

7.2 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"/>
  <xs:complexType name="ArrayOfunsignedLong">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedLong"
type="xs:unsignedLong"/>
    </xs:sequence>
```


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```
  </xs:complexType>
  <xs:element name="ArrayOfunsignedLong" nillable="true" type="q32:ArrayOfunsignedLong"/>
  <xs:complexType name="ArrayOfbase64Binary">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="base64Binary" nillable="true"
type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfbase64Binary" nillable="true" type="q32:ArrayOfbase64Binary"/>
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="q32:ArrayOfstring"/>
  <xs:complexType name="ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfunsignedLongConvertBatchJobdfuNjXEA">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" type="xs:unsignedLong"/>
            <xs:element
xmlns:q29="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch" name="Value"
nillable="true" type="q29:ConvertBatchJob"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA" nillable="true"
type="q32:ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA"/>
</xs:schema>
```

7.3 http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"/>
  <xs:element name="AddSyncStreamJobRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="InputStreamInBytes" nillable="true"
type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
        <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```


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7.4 http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="CancelJobResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.5 http://schemas.microsoft.com/office/server/word/2009/08/cancelJob Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:element name="CancelJobRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.6 http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSetting
s" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"/
>
  <xs:complexType name="ConversionJobSettings">
    <xs:sequence>
      <xs:element minOccurs="0" name="AddThumbnail" type="xs:boolean"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="CompatibilityMode" type="tns1:CompatibilityMode"/>
      <xs:element minOccurs="0" name="DefaultLanguageId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="DoNotEmbedSystemFonts" type="xs:boolean"/>
      <xs:element minOccurs="0" name="EmbedFonts" type="xs:boolean"/>
      <xs:element minOccurs="0" name="FixedFormatSettings" nillable="true"
type="q33:FixedFormatSettings"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="MarkupView" type="tns1:MarkupTypes"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="OutputFormat" type="tns1:SaveFormat"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="OutputSaveBehavior" type="tns1:SaveBehavior"/>
```


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```
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="RevisionState" type="tns1:RevisionState"/>
      <xs:element minOccurs="0" name="SubsetEmbeddedFonts" type="xs:boolean"/>
      <xs:element minOccurs="0" name="UpdateFields" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ConversionJobSettings" nillable="true" type="q33:ConversionJobSettings"/>
  <xs:complexType name="FixedFormatSettings">
    <xs:sequence>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="BalloonState" type="tns1:BalloonState"/>
      <xs:element minOccurs="0" name="BitmapEmbeddedFonts" type="xs:boolean"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="Bookmarks" type="tns1:FixedFormatBookmark"/>
      <xs:element minOccurs="0" name="IncludeDocumentProperties" type="xs:boolean"/>
      <xs:element minOccurs="0" name="IncludeDocumentStructure" type="xs:boolean"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
minOccurs="0" name="OutputQuality" type="tns1:FixedFormatQuality"/>
      <xs:element minOccurs="0" name="UsePDFA" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="FixedFormatSettings" nillable="true" type="q33:FixedFormatSettings"/>
</xs:schema>
```

7.7 http://schemas.microsoft.com/office/server/word/2009/08/convertBatch Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q29="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"/>
  <xs:element name="ConvertBatchRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Items" nillable="true"
type="q29:ArrayOfConvertBatchItem"/>
        <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Jobs" nillable="true"
type="q32:ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfConvertBatchItem">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ConvertBatchItem" nillable="true"
type="q29:ConvertBatchItem"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfConvertBatchItem" nillable="true"
type="q29:ArrayOfConvertBatchItem"/>
  <xs:complexType name="ConvertBatchItem">
    <xs:sequence>
      <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
      <xs:element minOccurs="0" name="InputFile" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="ItemId" type="xs:int"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="OutputFile" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
```


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```
  <xs:element name="ConvertBatchItem" nillable="true" type="q29:ConvertBatchItem"/>
  <xs:complexType name="ConvertBatchJob">
    <xs:sequence>
      <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
      <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ConvertBatchJob" nillable="true" type="q29:ConvertBatchJob"/>
</xs:schema>
```

7.8 http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:q26="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"/>
  <xs:element name="GetGroupsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="CancelTime" nillable="true" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="CreateTime" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="Groups" nillable="true"
type="q26:ArrayOfGetGroupsGroup"/>
        <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
        <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfGetGroupsGroup">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="GetGroupsGroup" nillable="true"
type="q26:GetGroupsGroup"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfGetGroupsGroup" nillable="true" type="q26:ArrayOfGetGroupsGroup"/>
  <xs:complexType name="GetGroupsGroup">
    <xs:sequence>
      <xs:element minOccurs="0" name="Id" type="xs:short"/>
      <xs:element minOccurs="0" name="InputRoot" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="OutputRoot" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="GetGroupsGroup" nillable="true" type="q26:GetGroupsGroup"/>
</xs:schema>
```

7.9 http://schemas.microsoft.com/office/server/word/2009/08/getGroups Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:element name="GetGroupsRequest">
    <xs:complexType>
```


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```
      <xs:sequence>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.10 http://schemas.microsoft.com/office/server/word/2009/08/getId/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:element name="GetIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="AssignedItemCount" type="xs:int"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="Id" type="q16:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.11 http://schemas.microsoft.com/office/server/word/2009/08/getId Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getId"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetIdRequest">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.12 http://schemas.microsoft.com/office/server/word/2009/08/getItems/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:q20="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ArrayOfGetItemsItem">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="GetItemsItem" nillable="true"
type="q20:GetItemsItem"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfGetItemsItem" nillable="true" type="q20:ArrayOfGetItemsItem"/>
  <xs:complexType name="GetItemsItem">
    <xs:sequence>
      <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:int"/>
      <xs:element minOccurs="0" name="Id" type="xs:int"/>
      <xs:element minOccurs="0" name="InputFile" nillable="true" type="xs:string"/>
```


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```
      <xs:element minOccurs="0" name="OutputFile" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="StartTime" nillable="true" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="StopTime" nillable="true" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="GetItemsItem" nillable="true" type="q20:GetItemsItem"/>
  <xs:element name="Items" nillable="true" type="q20:ArrayOfGetItemsItem"/>
</xs:schema>
```

7.13 http://schemas.microsoft.com/2003/10/Serialization/ Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType"/>
  <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
  <xs:element name="boolean" nillable="true" type="xs:boolean"/>
  <xs:element name="byte" nillable="true" type="xs:byte"/>
  <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
  <xs:element name="decimal" nillable="true" type="xs:decimal"/>
  <xs:element name="double" nillable="true" type="xs:double"/>
  <xs:element name="float" nillable="true" type="xs:float"/>
  <xs:element name="int" nillable="true" type="xs:int"/>
  <xs:element name="long" nillable="true" type="xs:long"/>
  <xs:element name="QName" nillable="true" type="xs:QName"/>
  <xs:element name="short" nillable="true" type="xs:short"/>
  <xs:element name="string" nillable="true" type="xs:string"/>
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
  <xs:element name="char" nillable="true" type="q16:char"/>
  <xs:simpleType name="char">
    <xs:restriction base="xs:int"/>
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="q16:duration"/>
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="q16:guid"/>
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-
F]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName"/>
  <xs:attribute name="Id" type="xs:ID"/>
  <xs:attribute name="Ref" type="xs:IDREF"/>
</xs:schema>
```

7.14 http://schemas.microsoft.com/office/server/word/2009/08/getItems Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
```


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```
  <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"/>
  <xs:element name="GetItemsRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Canceled" type="xs:boolean"/>
        <xs:element minOccurs="0" name="Failed" type="xs:boolean"/>
        <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
        <xs:element minOccurs="0" name="InProgress" type="xs:boolean"/>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element minOccurs="0" name="NotStarted" type="xs:boolean"/>
        <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
        <xs:element minOccurs="0" name="Succeeded" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetItemsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q20="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
minOccurs="0" ref="q20:Items"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.15 http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:q24="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetJobsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Jobs" nillable="true" type="q24:ArrayOfGetJobsJob"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfGetJobsJob">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="GetJobsJob" nillable="true"
type="q24:GetJobsJob"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfGetJobsJob" nillable="true" type="q24:ArrayOfGetJobsJob"/>
  <xs:complexType name="GetJobsJob">
    <xs:sequence>
      <xs:element minOccurs="0" name="CancelTime" nillable="true" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="CreateTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="GetJobsJob" nillable="true" type="q24:GetJobsJob"/>
</xs:schema>
```


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7.16 http://schemas.microsoft.com/office/server/word/2009/08/getJobs Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:element name="GetJobsRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ActiveOnly" type="xs:boolean"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
        <xs:element minOccurs="0" name="SubmittedOnly" type="xs:boolean"/>
        <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.17 http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/respons
e" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetJobStatusResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Canceled" type="xs:int"/>
        <xs:element minOccurs="0" name="Count" type="xs:int"/>
        <xs:element minOccurs="0" name="Failed" type="xs:int"/>
        <xs:element minOccurs="0" name="InProgress" type="xs:int"/>
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="NotStarted" type="xs:int"/>
        <xs:element minOccurs="0" name="NotSubmitted" type="xs:int"/>
        <xs:element minOccurs="0" name="Succeeded" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.18 http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:element name="GetJobStatusRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```


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7.19 http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/res
ponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:element name="BatchGetSyncJobStatusResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q28="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="ErrorCodes" nillable="true" type="q28:ArrayOfNullableOfint"/>
        <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="JobIds" nillable="true" type="q32:ArrayOfunsignedLong"/>
        <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean"/>
        <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="OutputStreamsInBytes" nillable="true" type="q32:ArrayOfbase64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.20 http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:element name="BatchGetSyncJobStatusRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="JobIds" nillable="true" type="q32:ArrayOfunsignedLong"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.21 http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputB
ytes/response" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetSyncStreamOutputBytesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean"/>
        <xs:element minOccurs="0" name="OutputStreamBytes" nillable="true"
type="xs:base64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```


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7.22 http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetSyncStreamOutputBytesRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="BytesReceived" type="xs:int"/>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.23 http://schemas.microsoft.com/office/server/word/2009/08/ping/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="PingResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Count" type="xs:int"/>
        <xs:element minOccurs="0" name="Received" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="Responded" type="xs:dateTime"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.24 http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="AddGroupResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddItemsResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.25 http://schemas.microsoft.com/office/server/word/2009/08/ping Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/ping"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="PingRequest">
    <xs:complexType>
```


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

7.26 http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="SubmitJobResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.27 http://schemas.microsoft.com/office/server/word/2009/08/submitJob Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="SubmitJobRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.28 http://schemas.datacontract.org/2004/07/System Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q28="http://schemas.datacontract.org/2004/07/System"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ArrayOfNullableOfint">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="int" nillable="true"
type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfNullableOfint" nillable="true" type="q28:ArrayOfNullableOfint"/>
</xs:schema>
```

7.29 http://schemas.microsoft.com/office/server/word/2009/08/addGroup Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:element name="AddGroupRequest">
    <xs:complexType>
```


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```
      <xs:sequence>
        <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
        <xs:element minOccurs="0" name="InputRoot" nillable="true" type="xs:string"/>
        <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Items" nillable="true" type="q32:ArrayOfstring"/>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element minOccurs="0" name="OutputRoot" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.30 http://schemas.microsoft.com/office/server/word/2009/08/addItems Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:element name="AddItemsRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
        <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="InputUrls" nillable="true" type="q32:ArrayOfstring"/>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element xmlns:q32="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="OutputUrls" nillable="true" type="q32:ArrayOfstring"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.31 http://schemas.microsoft.com/office/server/word/2009/08/addJob Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"/>
  <xs:element name="AddJobRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
        <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
        <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddJobResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
</xs:schema>
```


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7.32 http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="AddSyncJobResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.33 http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"/>
  <xs:element name="AddSyncJobRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="q16:guid"/>
        <xs:element
xmlns:q33="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q33:ConversionJobSettings"/>
        <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="inputUrl" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="outputUrl" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.34 http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/response Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/res
ponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="AddSyncStreamJobResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:int"/>
        <xs:element minOccurs="0" name="OutputStreamInBytes" nillable="true"
type="xs:base64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```


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7.35 http://schemas.microsoft.com/office/server/word/2009/08/service Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/service"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/service"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ReadOnlyFault">
    <xs:sequence/>
  </xs:complexType>
  <xs:element name="ReadOnlyFault" nillable="true" type="tns:ReadOnlyFault"/>
</xs:schema>
```

Preliminary

8 Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

- Microsoft SharePoint Server 2010
- Microsoft SharePoint Server 2013
- Microsoft SharePoint Server 2016
- Microsoft SharePoint Server 2019 Preview

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates 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 2.2.4: This complex type is available only in SharePoint Server 2013.

<2> Section 2.2.4.4: This complex type is available only in SharePoint Server 2013.

<3> Section 2.2.5.9: This is available only in SharePoint Server 2013.

<4> Section 3.1.1.1: This is available only in SharePoint Server 2013.

<5> Section 3.1.4: This operation is available only in SharePoint Server 2013.

<6> Section 3.1.4: This operation is available only in SharePoint Server 2013.

<7> Section 3.1.4: This operation is available only in SharePoint Server 2013.

<8> Section 3.1.4: This operation is available only in SharePoint Server 2013.

<9> Section 3.1.4.13: This operation is available only in SharePoint Server 2013.

<10> Section 3.1.4.14: This operation is available only in SharePoint Server 2013.

<11> Section 3.1.4.15: This operation is available only in SharePoint Server 2013.

<12> Section 3.1.4.16: This operation is available only in SharePoint Server 2013.

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9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

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.
- A document revision that captures changes to protocol functionality.

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 **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

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

Section	Description	Revision class
8 Appendix C: Product Behavior	Updated list of supported products.	Major

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