

[MS-WORDSWCF]: Word Automation Services WCF Service Protocol Specification

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1 Introduction

This document specifies the Word Automation Services WCF Service Protocol that is used to convert documents from one file format to another file format.

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

1.1 Glossary

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

Coordinated Universal Time (UTC)
GUID
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)

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

bookmark
Boolean
conversion group
conversion item
conversion job
culture name
dictionary
document template
endpoint
external group
field
macro
partition
Portable Document Format (PDF)
result set
Simple Object Access Protocol (SOAP)
SOAP action
SOAP body
SOAP fault
stored procedure
SystemID
template
thumbnail
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
Web Services Description Language (WSDL)
WSDL message
WSDL operation
XML namespace
XML namespace prefix
XML Paper Specification (XPS)
XML schema
XML schema definition (XSD)

The following terms are specific to this document:

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

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.

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

1.2 References

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

1.2.1 Normative References

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

[MS-SPSTWS] Microsoft Corporation, "[SharePoint Security Token Service Web Service Protocol Specification](#)".

[MS-WORDSSP] Microsoft Corporation, "[Word Automation Services Stored Procedures Protocol Specification](#)".

[MS-WORDSSP2] Microsoft Corporation, "[Word Automation Services Stored Procedures Version 2 Protocol Specification](#)".

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

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1.2.2 Informative References

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[ISO/IEC-29500-1] International Organization for Standardization, "Information Technology - Document description and processing languages - Office Open XML File Formats - Part 1: Fundamentals and Markup Language Reference", ISO/IEC PRF 29500-1:2008, http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=51463

[ISO/IEC-29500-4] International Organization for Standardization, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 4: Transitional Migration Features", ISO/IEC 29500-4:2008, http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=51462

[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

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

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

[MSFT-RTF] Microsoft Corporation, "Rich Text Format (RTF) Specification", version 1.9.1, March 2008, <http://www.microsoft.com/downloads/details.aspx?FamilyID=DD422B8D-FF06-4207-B476-6B5396A18A2B&displaylang=en>

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

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

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

[MS-OFFMACRO] Microsoft Corporation, "[Office Macro-Enabled File Format Specification](#)".

[MS-OFFMACRO2] Microsoft Corporation, "[Office Macro-Enabled File Format Version 2 Structure Specification](#)".

[MS-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol Specification](#)".

[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>

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, <http://www.ietf.org/rfc/rfc2818.txt>

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

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:

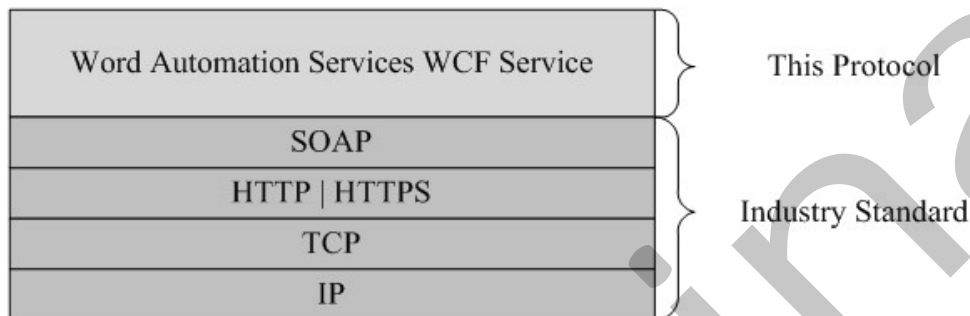
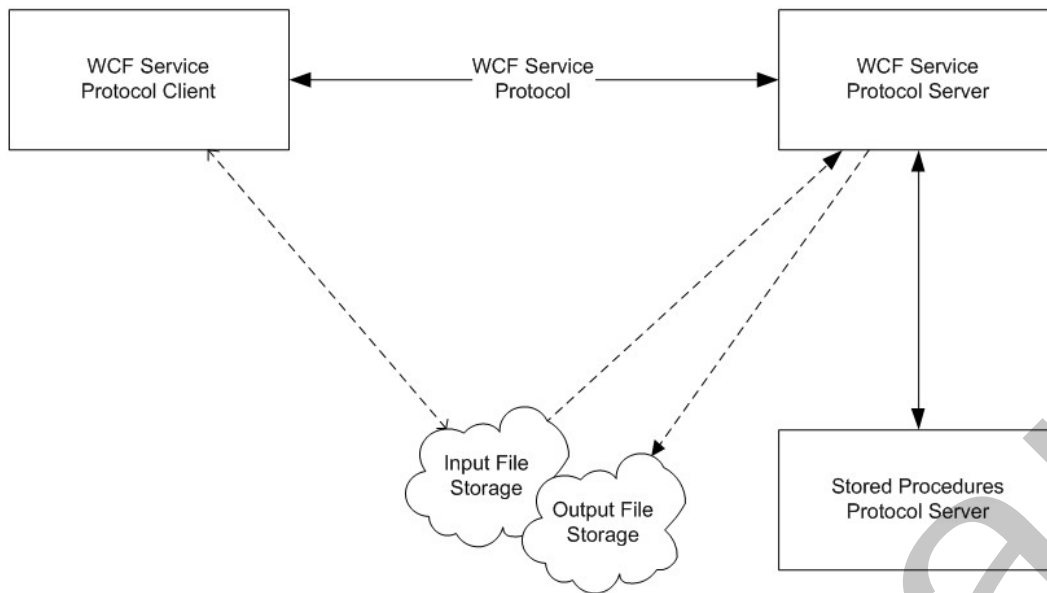


Figure 1: This protocol in relation to underlying messaging and transport stack protocols

Although the protocol server processes requests from the protocol client to create and manage a queue of **conversion jobs**, the protocol server uses the Word Automation Services Stored Procedures protocol defined in [\[MS-WORDSSP\]](#) to store the conversion job 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.

The following diagram shows the relationship between this protocol and the database protocol. Dotted lines indicate interactions that are implementation-specific and not significant for interoperability in relation to these protocols.



1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint (4) URIs** that are known by protocol clients. The endpoint (4) 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 (4) 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 appropriate 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.

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 specified 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.

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**, **present**, and **not null**.

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 **ServiceContext** 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.

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/convertBatch	
q10	http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus	

Prefi x	Namespace URI	Reference
q11	http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/respo nse	
q12	http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob	
q13	http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response	
q14	http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob	
q15	http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/resp onse	
q16	http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBy tes	
q17	http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBy tes/response	
q18	http://schemas.microsoft.com/office/server/word/2009/08/addJob	
q19	http://schemas.microsoft.com/office/server/word/2009/08/addGroup	
q2	http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings	
q20	http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response	
q21	http://schemas.microsoft.com/office/server/word/2009/08/addItems	
q22	http://schemas.microsoft.com/office/server/word/2009/08/submitJob	
q23	http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response	
q24	http://schemas.microsoft.com/office/server/word/2009/08/getJobs	
q25	http://schemas.microsoft.com/office/server/word/2009/08/getGroups	
q27	http://schemas.microsoft.com/office/server/word/2009/08/getItems	
q3	http://schemas.datacontract.org/2004/07/System	
q30	http://schemas.microsoft.com/office/server/word/2009/08/getId	
q31	http://schemas.microsoft.com/office/server/word/2009/08/getId/response	
q4	http://schemas.microsoft.com/office/server/word/2009/08/ping	
q5	http://schemas.microsoft.com/office/server/word/2009/08/ping/response	
q6	http://schemas.microsoft.com/office/server/word/2009/08/cancelJob	
q7	http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response	
q8	http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus	
q9	http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]

Prefi x	Namespace URI	Reference
tns	http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions	
tns1	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
tns2	http://schemas.microsoft.com/2003/10/Serialization/	
tns3	http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response	
tns4	http://schemas.microsoft.com/office/server/word/2009/08/getItems/response	
tns5	http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response	
tns6	http://schemas.microsoft.com/office/server/word/2009/08/service	
tns7	http://schemas.microsoft.com/office/server/word/2009/08/service/Imports	
wsaw	http://www.w3.org/2006/05/addressing/wsdl	
wSDL	http://schemas.xmlsoap.org/wsdl/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA 1] [XMLSCHEMA 2]

2.2.2 Messages

None.

2.2.3 Elements

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

Element	Description
ConversionJobSettings	Contains a collection of preferred settings for a conversion job.
GroupId	Uniquely identifies a conversion group within a conversion job.
JobId	Uniquely identifies a conversion job.
PartitionId	Identifies the partition (1) of a conversion job.
UserToken	Represents user credentials.

2.2.3.1 ConversionJobSettings (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings>)

The **ConversionJobSettings** element is a **ConversionJobSettings** (section [2.2.4.2](#)) value that specifies a collection of preferred settings for all conversion items within a conversion job.

```
<xs:element minOccurs="0" name="Settings" nillable="true"
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
type="q2:ConversionJobSettings"/>
```

2.2.3.2 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"/>
```

2.2.3.3 JobId

The **JobId** element contains an 8-byte, unsigned integer value that uniquely identifies a conversion job, as follows:

- The protocol client **MUST** specify a unique 8-byte value for each conversion job.
- When used with the **stored procedures, result sets** and XML structures specified in [\[MS-WORDSSP\]](#), the value **MUST** be represented as an 8-byte, signed integer value.

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

2.2.3.4 PartitionId

The **PartitionId** element contains a **guid** (section [2.2.5.5](#)) value identifying the partition (1) of a conversion job.

```
<xs:element minOccurs="0" name="PartitionId" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
```

2.2.3.5 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	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
Time																															
...																															
Size																															
Magic1																															
AuthenticationType																															
UserSystemIdSize																															
TokenGroupSize																															
Magic2																															
UserSystemId (variable)																															
...																															
TokenGroups (variable)																															
...																															

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 Authentication

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

TokenGroupSize (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 0xDADDBEDF.

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), 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 .

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:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0" name="CompatibilityMode" type="tns: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="q2:FixedFormatSettings"/>
  <xs:element
    xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0" name="MarkupView" type="tns:MarkupTypes"/>
    <xs:element
    xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0" name="OutputFormat" type="tns:SaveFormat"/>
    <xs:element
    xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0" name="OutputSaveBehavior" type="tns:SaveBehavior"/>
    <xs:element
    xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0" name="RevisionState" type="tns: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.

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 (3)** 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:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      minOccurs="0" name="BalloonState" type="tns:BalloonState"/>
    <xs:element minOccurs="0" name="BitmapEmbeddedFonts" type="xs:boolean"/>
    <xs:element
      xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      minOccurs="0" name="Bookmarks" type="tns:FixedFormatBookmark"/>
    <xs:element minOccurs="0" name="IncludeDocumentProperties" type="xs:boolean"/>
    <xs:element minOccurs="0" name="IncludeDocumentStructure" type="xs:boolean"/>
    <xs:element
      xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      minOccurs="0" name="OutputQuality" type="tns:FixedFormatQuality"/>
    <xs:element minOccurs="0" name="UsePDF/A" 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.

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.

UsePDF/A: 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**.

2.2.5 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.
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 **BalloonState**.

Value	Meaning
AlwaysUse	Display all revision marking and comments in balloons.

Value	Meaning
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="Word2012"/>
    <xs:enumeration value="MaintainCurrentSetting"/>
    <xs:enumeration value="Current"/>
  </xs:restriction>
</xs:simpleType>
```

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

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/IEC-29500-1] and [ISO/IEC-29500-4] as well as those specified in [MS-DOCX] except where noted in [MS-DOCX] Section 2.7.5.
Word2012	Compatible with word processing features specified in [ISO/IEC-29500-1] and [ISO/IEC-29500-4] 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>
```

```
</xs:simpleType>
```

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

Value	Meaning
None	Create no bookmarks.
Headings	Create bookmarks from the headings in the input file.
Bookmarks	Create bookmarks from the bookmarks 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>
```

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

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 **MarkupTypes**.

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

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 **RevisionState**.

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 **SaveBehavior**.

Value	Meaning
AppendIfPossible	If the output file location supports version history, append to the file's version history. If the output file location does not support version history, overwrite the existing file.
AlwaysOverwrite	Always overwrite the existing file.
AppendOnly	If the output file location supports version history, append to the file's version history. If the output file location does not support version history, do not save the output file.
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="ODT"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
Automatic	Automatically determined based on the file extension.
Document	Office Open XML document. For more information, see [ECMA-376] , [ISO/IEC-29500-1] , [ISO/IEC-29500-4] and [MS-DOCX] .
DocumentMacroEnabled	Office Open XML document with macros enabled. For more information, see [ECMA-376] , [ISO/IEC-29500-1] , [ISO/IEC-29500-4] , [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/IEC-29500-1] , [ISO/IEC-29500-4] and [MS-DOCX] .
TemplateMacroEnabled	Office Open XML document template with macros enabled. For more information, see [ECMA-376] , [ISO/IEC-29500-1] , [ISO/IEC-29500-4] , [MS-DOCX] , [MS-OFFMACRO] , and [MS-OFFMACRO2] .
Template97	Word Binary File Format document template (1) . 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.
XPS	XML Paper Specification (XPS) file. For more information, see [MSFT-XPS] .
ODT	

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

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

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:

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. After a conversion item has either failed or successfully finished, the protocol server is responsible for updating the status of the conversion items in the database.

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 file to an output file similar to a conversion job but without storing the job status in a database using [\[MS-WORDSSP2\]](#) as is done for a normal conversion job. <1> 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

Operation	Description
	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.<2>
AddSyncStreamJob	Adds an immediate conversion job from a stream containing the input file.<3>
BatchGetSyncJobStatus	Get the status of a number of immediate conversion jobs.<4>
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 .<5>
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.

```
<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="tns6: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="tns6:AddGroupResponse"
    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 call the **proc_AddGroup** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.15. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@GroupId	This MUST be the conversion group identifier specified by the GroupId element.
@InputRoot	This MUST be the root input URL specified by the InputRoot element.
@OutputRoot	This MUST be the root output URL specified by the OutputRoot element.
@MaxAttemptsCount	This MUST be an integer value specifying the maximum number of conversion attempts for each conversion item.
@JobXml	<p>This MUST be the list of conversion item relative URLs specified by the Items element.</p> <p>This list MUST be encoded as XML according to the XML schema definition (XSD) specified in [MS-WORDSSP] section 2.2.6.4.2 with a root element of group.</p> <p>The following pseudocode specifies how to create the XML from the Items element:</p> <pre> WRITE START ELEMENT 'group' FOR ConversionItem = 0 TO COUNT(AddGroupRequest.Items) WRITE START ELEMENT 'item' WITH WITH ATTRIBUTES 'id' = ConversionItem + 1 'in' = AddGroupRequest.Items[ConversionItem] WRITE END ELEMENT 'item' ENDFOR WRITE END ELEMENT 'group' </pre>

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.

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 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:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Items" nillable="true" type="tns1: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 [2.2.3.2](#)) element containing a new, unique value generated by the protocol client that identifies the conversion group within the conversion job.

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 [2.2.3.3](#)) 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 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.

```

<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="tns6: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="tns6:AddItemsResponse"
    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 call the **proc_AddGroup** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.15. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@GroupId	This MUST be the conversion group identifier specified by the GroupId element.
@MaxAttemptsCount	This MUST be an integer value specifying the maximum number of conversion attempts for each conversion item.

Parameter	Value
@JobXml	<p>This MUST be the list of conversion items specified by the InputUrls element and OutputUrls element.</p> <p>This list MUST be encoded as XML according to the XSD specified in [MS-WORDSSP] section 2.2.6.4.2 with a root element of group.</p> <p>The following pseudocode specifies how to create the XML from the Items element:</p> <pre> WRITE START ELEMENT 'group' FOR ConversionItem = 0 TO COUNT(AddItemsRequest.InputUrls) WRITE START ELEMENT 'item' WITH WITH ATTRIBUTES 'id' = ConversionItem + 1 'in' = AddItemsRequest.InputUrls[ConversionItem] 'out' = AddItemsRequest.OutputUrls[ConversionItem] WRITE END ELEMENT 'item' ENDFOR WRITE END ELEMENT 'group' </pre>

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 input data for the **AddItems** WSDL operation.

```
<xs:element name="AddItemsRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
      <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="InputUrls" nillable="true" type="tns1:ArrayOfstring"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="OutputUrls" nillable="true" type="tns1:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GroupId: A **GroupId** (section [2.2.3.2](#)) element containing a new, unique value generated by the protocol client that identifies the conversion group within the conversion job.

InputUrls: An **ArrayOfstrings** (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 [2.2.3.3](#)) element identifying the conversion job to which the conversion group belongs.

OutputUrls: An **ArrayOfstrings** (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 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.

3.1.4.3 AddJob

Adds a new conversion job to the queue.

```
<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="tns6: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="tns6:AddJobResponse"
    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 call the **proc_AddJob** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.14. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@Name	This MUST be the string value specified by the Name element.
@UserTokenHeader	This MUST be the first 32-bytes of the serialized binary value of the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none">▪ If UserToken is null, this value MUST be null.▪ If UserToken is not null, this value MUST be the first 32-bytes of the serialized binary value of the UserToken element, which contain all fields except for the variable-length UserSystemId field and the variable-length TokenGroups field.
@UserTokenSid	This MUST be the SystemID of the user of the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none">▪ If UserToken is null, this value MUST be null.▪ If UserToken is not null, this value MUST be the UserSystemId field of the serialized binary value of the UserToken element.

Parameter	Value
@UserTokenGroups	This MUST be the external groups ([MS-WSSFO2] section 2.2.4.4) of which the user is a member from the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the TokenGroups field of the serialized binary value of the UserToken element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.
@Settings	This MUST be a ConversionJobSettings (section 2.2.3.1) element containing the preferred settings specified by the Settings element in the AddJobRequest request WSDL message.

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

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.

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

3.1.4.3.2.1 AddJobRequest

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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2:guid"/>
      <xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q2:ConversionJobSettings"/>
      <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section [2.2.3.3](#)) 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 [2.2.3.4](#)) element identifying the partition (1) 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 [2.2.3.5](#)) element that provides user credentials for accessing the input and output files in the conversion job.

3.1.4.3.2.2 AddJobResponse

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

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.

```
<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="tns6: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="tns6:CancelJobResponse"
    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 call the **proc_CancelJob** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.12. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.

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:

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

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job to mark as canceled.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) of the conversion job.

3.1.4.4.2.2 CancelJobResponse

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

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.

```
<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="tns6: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.

When a conversion item has successfully finished, the protocol server MUST call the **proc_UpdateSucceededItem** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.1. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId child element of the ConvertBatchItem element for the conversion item.
@GroupId	This MUST be the conversion group identifier specified by the GroupId child element of the ConvertBatchItem element for the conversion item.
@ItemId	This MUST be the conversion item identifier specified by the ItemId child element of the ConvertBatchItem element for the conversion item.
@Reserved	This value MUST be null.

When a conversion item has failed, the protocol server MUST call the **proc_UpdateFailedItem** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.2. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId child element of the ConvertBatchItem element for the conversion item.
@GroupId	This MUST be the conversion group identifier specified by the GroupId child element of the ConvertBatchItem element for the conversion item.
@ItemId	This MUST be the conversion item identifier specified by the ItemId child element of the ConvertBatchItem element for the conversion item.
@NoRetry	This value specifies whether the conversion item should not be retried.
@ErrorCode	This value specifies the error code of the failure.
@Reserved	This value MUST be null.

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`

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 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="q1:ArrayOfConvertBatchItem"/>
      <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="Jobs" nillable="true"
        type="tns1: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	
ConvertBatchItem	
ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA	
ConvertBatchJob	

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="q1: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 [2.2.3.2](#)) 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 [2.2.3.3](#)) 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.

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:q1="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch" name="Value"
            nillable="true" type="q1: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:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
      minOccurs="0" name="Settings" nillable="true" type="q2: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 [2.2.3.5](#)) 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.

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.

```
<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="tns6: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="tns6: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 call the **proc_GetGroups** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.10. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.

The protocol server MUST respond with a **GetGroupsResponse** response WSDL message based on the result set returned by **proc_GetGroups** ([\[MS-WORDSSP\]](#) section 3.1.5.10) stored procedure. The protocol server MUST write a **GetGroupsGroup** element as a child of the **Groups** element for each row in the **proc_GetGroups.ResultSet0** ([\[MS-WORDSSP\]](#) section 2.2.4.5) result set. The following table specifies how each column value in a row is represented in the **GetGroupsResponse** response WSDL message.

Column	Value
GroupId	This value MUST be represented by the Id child element of the GetGroupsGroup element for the conversion group.
InputRoot	This value MUST be represented by the InputRoot child element of the GetGroupsGroup element for the conversion group.
OutputRoot	This value MUST be represented by the OutputRoot child element of the GetGroupsGroup element for the conversion group.
CreateTime	If this row is the first row in the result set, this value MUST be represented by the CreateTime element of the GetGroupsResponse response WSDL message. For all other rows, this value MUST be ignored.
CancelTime	If this row is the first row in the result set, this value MUST be represented by the CancelTime element of the GetGroupsResponse response WSDL message. For all other rows, this value MUST be ignored.
Submitted	If this row is the first row in the result set, the inverse of this value MUST be represented by the NotSubmitted element of the GetGroupsResponse response WSDL message. For all other rows, this value MUST be ignored.
Settings	If this row is the last row in the result set, the ConversionJobSettings (section 2.2.3.1) element containing the preferred settings MUST be represented by the Settings element of the GetGroupsResponse response WSDL message. For all other rows, this value MUST be ignored.

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

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

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) of the conversion job.

3.1.4.6.2.2 GetGroupsResponse

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="tns3:ArrayOfGetGroupsGroup"/>
      <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
      <xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q2: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.

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	
GetGroupsGroup	

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="tns3: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.

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.

```
<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="tns6: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="tns6: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.

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 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 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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="Id" type="tns2:guid"/>
    </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.

```
<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="tns6: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="tns6: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 call the **proc_GetItems** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.9. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@GroupId	This MUST be the conversion group identifier specified by the GroupId element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.
@NotSubmitted	This MUST be the value specified by the NotSubmitted element.
@NotStarted	This MUST be the value specified by the NotStarted element.
@InProgress	This MUST be the value specified by the InProgress element.
@Succeeded	This MUST be the value specified by the Succeeded element.
@Failed	This MUST be the value specified by the Failed element.
@Canceled	This MUST be the value specified by the Canceled element.

The protocol server MUST respond with a **GetItemsResponse** response WSDL message based on the result set returned by **proc_GetItems** ([\[MS-WORDSSP\]](#) section 3.1.5.9) stored procedure. The protocol server MUST write a **GetItemsItem** element as a child of the **Items** element for each row in the **proc_GetItems.ResultSet0** ([\[MS-WORDSSP\]](#) section 2.2.4.4) result set. The following table specifies how each column value in a row is represented in the **GetItemsResponse** response WSDL message.

Column	Value
ItemId	This value MUST be represented by the Id child element of the GetItemsItem element for the conversion item.

Column	Value
StartTime	This value MUST be represented by the StartTime child element of the GetItemsItem element for the conversion item.
StopTime	This value MUST be represented by the StopTime child element of the GetItemsItem element for the conversion item.
ErrorCode	This value MUST be represented by the ErrorCode child element of the GetItemsItem element for the conversion item.
InputFile	This value MUST be represented by the InputFile child element of the GetItemsItem element for the conversion item.
OutputFile	This value MUST be represented by the OutputFile child element of the GetItemsItem element for the conversion item.

3.1.4.8.1 Messages

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

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

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 [2.2.3.2](#)) 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 [2.2.3.3](#)) 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 [2.2.3.4](#)) element identifying the partition (1) 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 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:tns4="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
minOccurs="0" ref="tns4:Items"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```

    </xs:complexType>
  </xs:element>

```

tns4: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	
GetItemsItem	

3.1.4.8.3.1 ArrayOfGetItemsItem

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="tns4: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

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9 GetJobs

Gets a list of conversion jobs.

```
<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="tns6: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="tns6: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 call the **proc_GetJobs** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.8. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.

Parameter	Value
@UserTokenHeader	This MUST be the first 32-bytes of the serialized binary value of the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the first 32-bytes of the serialized binary value of the UserToken element, which contain all fields except for the variable-length UserSystemId field and the variable-length TokenGroups field.
@UserTokenSid	This MUST be the SystemID of the user of the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the UserSystemId field of the serialized binary value of the UserToken element.
@UserTokenGroups	This MUST be the external groups ([MS-WSSFO2] section 2.2.4.4) of which the user is a member from the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the TokenGroups field of the serialized binary value of the UserToken element.
@ActiveOnly	This MUST be the value specified by the ActiveOnly element.
@SubmittedOnly	This MUST be the value specified by the SubmittedOnly element.

The protocol server MUST respond with a **GetJobsResponse** response WSDL message based on the result set returned by the **proc_GetJobs** ([\[MS-WORDSSP\]](#) section 3.1.5.8) stored procedure. The protocol server MUST write a **GetJobsJob** element as a child of the **Jobs** element for each row in the **proc_GetJobs.ResultSet0** ([\[MS-WORDSSP\]](#) section 2.2.4.3) result set. The following table specifies how each column value in a row is represented in the **GetJobsResponse** response WSDL message.

Column	Value
JobId	This value MUST be represented by the JobId child element of the GetJobsJob element for the conversion job.
CreateTime	This value MUST be represented by the CreateTime child element of the GetJobsJob element for the conversion job.
CancelTime	This value MUST be represented by the CancelTime child element of the GetJobsJob element for the conversion job.
Submitted	This inverse of this value MUST be represented by the NotSubmitted child element of the GetJobsJob element for the conversion job.
Name	This value MUST be represented by the Name child element of the GetJobsJob element for the conversion job.

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

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 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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"  
minOccurs="0" name="PartitionId" nillable="true" type="tns2: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 [2.2.3.4](#)) element specifying the partition (1) to return conversion jobs from. The protocol server MUST NOT return conversion jobs that are part of a different partition (1).

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 [2.2.3.5](#)) element that provides user credentials for accessing the input and output files in the conversion job.

3.1.4.9.2.2 GetJobsResponse

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="tns5: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.

Complex type	Description
ArrayOfGetJobsJob	
GetJobsJob	

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="tns5: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 [2.2.3.3](#)) 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.

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.

```
<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="tns6: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="tns6:GetJobStatusResponse"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

</wsdl:operation>

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

The protocol server MUST call the **proc_GetJobStatus** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.7. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.

The protocol server MUST respond with a **GetJobStatusResponse** response WSDL message based on the first row of the **proc_GetJobStatus.ResultSet0** ([\[MS-WORDSSP\]](#) section 2.2.4.2) result set. The protocol server MUST ignore all rows in the result set after the first row. The following table specifies how each column value in the first row is represented in the **GetJobStatusResponse** response WSDL message.

Column	Value
Total	This value MUST be represented by the Count element of the GetJobStatus response WSDL message.
NotSubmitted	This value MUST be represented by the NotSubmitted element of the GetJobStatus response WSDL message.
NotStarted	This value MUST be represented by the NotStarted element of the GetJobStatus response WSDL message.
InProgress	This value MUST be represented by the InProgress element of the GetJobStatus response WSDL message.
Succeeded	This value MUST be represented by the Succeeded element of the GetJobStatus response WSDL message.
Failed	This value MUST be represented by the Failed element of the GetJobStatus response WSDL message.
Canceled	This value MUST be represented by the Canceled element of the GetJobStatus response WSDL message.
Name	This value MUST be represented by the Name element of the GetJobStatus 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.

Message	Description
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.

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

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) of the conversion job.

3.1.4.10.2.2 GetJobStatusResponse

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.

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.

```
<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="tns6: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="tns6:PingResponse"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

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 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

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.

```
<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="tns6: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="tns6:SubmitJobResponse"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</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 call the **proc_SubmitJob** stored procedure, as specified in [\[MS-WORDSSPI\]](#) section 3.1.5.4. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.

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 input data for the **SubmitJob** WSDL operation.

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

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job to mark as submitted.

3.1.4.12.2.2 SubmitJobResponse

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. [<6>](#)

```
<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="tns6: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="tns6: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.

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 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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2:guid"/>
      <xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q2: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 [2.2.3.3](#)) element identifying the immediate conversion job.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) 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 [2.2.3.5](#)) 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 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>
```

```

    </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 have, 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 in the SharePoint library.
2	Insufficient permissions to download the input file.
3	Ustoken used for conversion expired before the input file could be downloaded.
4	Insufficient permissions to upload the converted file.
5	Ustoken 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.

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. <7>

```
<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="tns6: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/response"
    name="AddSyncStreamJobResponse" message="tns6: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 **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 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"/>
      <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean"/>
      <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2:guid"/>
      <xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q2: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 [2.2.3.3](#)) 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 [2.2.3.4](#)) element identifying the partition (1) 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 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 in the SharePoint library.
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 due to running out memory or space.
14	Output stream cannot be saved due to running out memory or space.

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

If **ErrorCode** is null and **OutputStreamInBytes** 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. [<8>](#)

```
<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="tns6: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/response"
    name="BatchGetSyncJobStatusResponse" message="tns6: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

Message	Description
	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.

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 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:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        minOccurs="0" name="JobIds" nillable="true" type="tns1:ArrayOfunsignedLong"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobIds: An array of **JobId** (section [2.2.3.3](#))

3.1.4.15.2.2 BatchGetSyncJobStatusResponse

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:q3="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="ErrorCodes" nillable="true" type="q3:ArrayOfNullableOfint"/>
      <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="JobIds" nillable="true" type="tns1:ArrayOfunsignedLong"/>
      <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean"/>
      <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="OutputStreamsInBytes" nillable="true" type="tns1: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.
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 due to running out memory or space.
14	Output stream cannot be saved due to running out memory or space.

JobIds: An array of **JobId** (section [2.2.3.3](#)). 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
ArrayOfunsignedLong	Array of unsignedlong
ArrayOfNullableOfint	Array of nullable int
ArrayOfbase64Binary	Array of base64Binary

3.1.4.15.3.1 ArrayOfNullableOfint

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

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.

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. [<9>](#)

```
<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="tns6: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="tns6: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.

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 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 [2.2.3.3](#)) element identifying the conversion job to which the output file belongs.

3.1.4.16.2.2 GetSyncStreamOutputBytesResponse

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.

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.

Preliminary

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>
<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 adds the conversion job to the database by calling the **proc_AddJob** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@Name	Protocol example
@UserTokenHeader	NULL
@UserTokenSid	NULL
@UserTokenGroups	NULL
@PartitionId	NULL
@Settings	<pre> <ConversionJobSettings xmlns="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"> <AddThumbnail>>false</AddThumbnail> <CompatibilityMode>MaintainCurrentSetting</CompatibilityMode> <DoNotEmbedSystemFonts>>false</DoNotEmbedSystemFonts> <EmbedFonts>>false</EmbedFonts> <FixedFormatSettings> </pre>

Parameter	Value
	<pre> <BalloonState>OnlyCommentsAndFormatting</BalloonState> <BitmapEmbeddedFonts>>true</BitmapEmbeddedFonts> <Bookmarks>None</Bookmarks> <IncludeDocumentProperties>>true</IncludeDocumentProperties> <IncludeDocumentStructure>>true</IncludeDocumentStructure> <OutputQuality>Standard</OutputQuality> <UsePDFA>>false</UsePDFA> </FixedFormatSettings> <MarkupView>Comments Ink Text Formatting</MarkupView> <OutputFormat>PDF</OutputFormat> <OutputSaveBehavior>AppendIfPossible</OutputSaveBehavior> <RevisionState>FinalShowingMarkup</RevisionState> <SubsetEmbeddedFonts>>false</SubsetEmbeddedFonts> <UpdateFields>>false</UpdateFields> </ConversionJobSettings> </pre>

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 database by calling the **proc_AddGroup** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@GroupId	1

Parameter	Value
@InputRoot	http://server/LoremIpsum/
@OutputRoot	http://server/Archive/
@MaxAttemptsCount	1
@JobXml	<pre><group xmlns="http://schemas.microsoft.com/office/server/word/2009/08/databaseJobAdd"> <item id="1" in="Aenean%20nec.docx" /> <item id="2" in="Fusce%20aliquet.docx" /> <item id="3" in="Lorem%20ipsum.docx" /> <item id="4" in="Nunc%20viverra.docx" /> <item id="5" in="Pellentesque.docx" /> </group></pre>

The protocol server then sends the following **AddGroup** response WSDL message:

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

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 database by calling the **proc_AddGroup** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@GroupId	2
@InputRoot	NULL
@OutputRoot	NULL
@MaxAttemptsCount	1
@JobXml	<pre><group xmlns="http://schemas.microsoft.com/office/server/word/2009/08/databaseJobAdd"> <item id="1" in="http://server/Other/Other.docx" out="http://server/Archive/Other.pdf" /> </group></pre>

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 adds the conversion group to the database by calling the **proc_SubmitJob** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455

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 a 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" />
</GetJobsRequest>
```

The protocol server receives the request and gets the list of conversion jobs from the database by calling the **proc_GetJobs** stored procedure using the following parameters:

Parameter	Value
@PartitionId	NULL
@UserTokenHeader	NULL
@UserTokenSid	NULL
@UserTokenGroups	NULL
@ActiveOnly	0
@SubmittedOnly	1

The stored procedure returns the following **proc_GetJobs.ResultSet0** result set:

JobId	CreateTime	CancelTime	Submitted	Name
- 1731414452807260922	2010-01-08 08:42:01.833	NULL	1	A previous job
5718799996475903468	2010-01-10 10:16:26.653	2010-01-10 10:17:27.553	1	A canceled job
- 7264762220217763455	2010-01-12 11:19:49.830	NULL	1	Protocol example

The protocol server then 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>
    </GetJobsJob>
  </Jobs>
</GetJobsResponse>
```

```

    <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 gets the status of the conversion job from the database by calling the **proc_GetJobStatus** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@PartitionId	NULL

The stored procedure returns the following **proc_GetJobStatus.ResultSet0** result set:

Total	NotSubmitted	NotStarted	InProgress	Succeeded	Failed	Canceled	Name
6	0	1	1	3	1	0	Protocol example

The protocol server then 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>

```

4.2.3 Getting the Groups

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

```
<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 gets the conversion groups in the conversion job from the database by calling the **proc_GetGroups** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@PartitionId	NULL

The stored procedure returns the following **proc_GetGroups.ResultSet0** result set:

GroupID	InputRoot	OutputRoot	CreateTime	CancelTime	Submitted	Settings
1	http://server/LoremIpsum/	http://server/Archive/	2010-01-12 11:19:49.830	NULL	1	<ConversionJobSettings xmlns="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"> <AddThumbnail>>false</AddThumbnail> <CompatibilityMode>MaintainCurrentSetting</CompatibilityMode> <DoNotEmbedSystemFonts>>false</DoNotEmbedSystemFonts> <EmbedFonts>>false</EmbedFonts> <FixedFormatSettings> <BalloonState>OnlyCommentsAndFormatting</BalloonState> <BitmapEmbeddedFonts>>true</BitmapEmbeddedFonts> <Bookmarks>None</Bookmarks> <IncludeDocumentProperties>>true</IncludeDocumentProperties> <IncludeDocumentStructure>>true</Inclu

GroupID	InputRoot	OutputRoot	CreateTime	CancelTime	Submitted	Settings
						<pre> deDocumentStructure> <OutputQuality>Standard</OutputQuality> <UsePDFA>>false</UsePDFA> </FixedFormatSettings> <MarkupView>Comments Ink Text Formatting</MarkupView> <OutputFormat>PDF</OutputFormat> <OutputSaveBehavior>AppendIfPossible</OutputSaveBehavior> <RevisionState>FinalShowingMarkup</RevisionState> <SubsetEmbeddedFonts>>false</SubsetEmbeddedFonts> <UpdateFields>>false</UpdateFields> </ConversionJobSettings> </pre>
2	NULL	NULL	2010-01-12 11:19:49.830	NULL	1	<pre> <ConversionJobSettings xmlns="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"> <AddThumbnail>>false</AddThumbnail> <CompatibilityMode>MaintainCurrentSetting</CompatibilityMode> <DoNotEmbedSystemFonts>>false</DoNotEmbedSystemFonts> <EmbedFonts>>false</EmbedFonts> <FixedFormatSettings> <BalloonState>OnlyCommentsAndFormatting</BalloonState> <BitmapEmbeddedFonts>>true</BitmapEmbeddedFonts> <Bookmarks>None</Bookmarks> <IncludeDocumentProperties>>true</IncludeDocumentProperties> <IncludeDocumentStructure>>true</IncludeDocumentStructure> <OutputQuality>Standard</OutputQuality> </pre>

GroupID	InputRoot	OutputRoot	CreateTime	CancelTime	Submitted	Settings
						<pre> y> <UsePDFA>>false</UsePDFA> </FixedFormatSettings> <MarkupView>Comments Ink Text Formatting</MarkupView> <OutputFormat>PDF</OutputFormat> <OutputSaveBehavior>AppendIfPossible< /OutputSaveBehavior> <RevisionState>FinalShowingMarkup</Re visionState> <SubsetEmbeddedFonts>>false</SubsetEmb deddedFonts> <UpdateFields>>false</UpdateFields> </ConversionJobSettings> </pre>

The protocol server then 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>

```

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>
  <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 gets the conversion items in the first conversion group in the conversion job from the database by calling the **proc_GetItems** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@GroupId	1
@PartitionId	NULL
@NotSubmitted	0
@NotStarted	1
@InProgress	1
@Succeeded	1
@Failed	1
@Canceled	0

The stored procedure returns the following **proc_GetItems.ResultSet0** result set:

ItemId	StartTime	StopTime	ErrorCode	InputFile	OutputFile
1	2010-01-12 11:20:02.140	2010-01-12 11:20:06.977	NULL	Aenean%20nec.docx	NULL

ItemId	StartTime	StopTime	ErrorCode	InputFile	OutputFile
2	2010-01-12 11:20:02.140	2010-01-12 11:20:07.150	99	Fusce%20aliquet.docx	NULL
3	2010-01-12 11:20:02.140	2010-01-12 11:20:07.290	NULL	Lorem%20ipsum.docx	NULL
4	2010-01-12 11:20:02.140	NULL	NULL	Nunc%20viverra.docx	NULL
5	NULL	NULL	NULL	Pellentesque.docx	NULL

The protocol server then 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>
```

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

```

The protocol server receives the request and gets the conversion items in the second conversion group in the conversion job from the database by calling the **proc_GetItems** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@GroupId	2
@PartitionId	NULL
@NotSubmitted	0
@NotStarted	1
@InProgress	1
@Succeeded	1
@Failed	1
@Canceled	0

The stored procedure returns the following **proc_GetItems.ResultSet0** result set:

Item Id	StartTime	StopTime	ErrorCode	InputFile	OutputFile
1	2010-01-12 11:21:01.387	2010-01-12 11:21:01.690	NULL	http://server/Other/Other.docx	http://server/Archive/Other.pdf

The protocol server then 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>

```

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>
    <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>
  </Settings>
</AddSyncJobRequest>

```

```

    <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 completed 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>
  <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 completed 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 completed successfully. If **OutputStreamInBytes** is not null, then this is the complete output file stream. If it is null, then the 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.

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	2.2.3.5

6 Appendix A: Full WSDL

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

```
<?xml version="1.0"?>
<wsdl:definitions xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:tns6="http://schemas.microsoft.com/office/server/word/2009/08/service"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/service"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema
xmlns:tns7="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.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/2003/10/Serialization"/>
      <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/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"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response"
/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
      <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/conversionJobSettings"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
>
      <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/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/addJob"/>
      <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/submitJob"/>
    <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/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/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/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/convertBatch"/>
    <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:schema>
</wsdl:types>
<wsdl:message name="PingRequest">
  <wsdl:part xmlns:q4="http://schemas.microsoft.com/office/server/word/2009/08/ping"
name="parameters" element="q4:PingRequest"/>
</wsdl:message>
<wsdl:message name="PingResponse">
  <wsdl:part
xmlns:q5="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
name="parameters" element="q5:PingResponse"/>
</wsdl:message>
<wsdl:message name="CancelJobRequest">
  <wsdl:part xmlns:q6="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
name="parameters" element="q6:CancelJobRequest"/>
</wsdl:message>
<wsdl:message name="CancelJobResponse">
  <wsdl:part
xmlns:q7="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
name="parameters" element="q7:CancelJobResponse"/>
</wsdl:message>
<wsdl:message name="GetJobStatusRequest">
  <wsdl:part
xmlns:q8="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
name="parameters" element="q8:GetJobStatusRequest"/>
</wsdl:message>
<wsdl:message name="GetJobStatusResponse">
  <wsdl:part
xmlns:q9="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
name="parameters" element="q9:GetJobStatusResponse"/>
</wsdl:message>
<wsdl:message name="BatchGetSyncJobStatusRequest">
  <wsdl:part
xmlns:q10="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus"
name="parameters" element="q10:BatchGetSyncJobStatusRequest"/>
</wsdl:message>
<wsdl:message name="BatchGetSyncJobStatusResponse">

```

```

    <wsdl:part
xmlns:q11="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response"
name="parameters" element="q11:BatchGetSyncJobStatusResponse"/>
  </wsdl:message>
  <wsdl:message name="AddSyncJobRequest">
    <wsdl:part xmlns:q12="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob"
name="parameters" element="q12:AddSyncJobRequest"/>
  </wsdl:message>
  <wsdl:message name="AddSyncJobResponse">
    <wsdl:part
xmlns:q13="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response"
name="parameters" element="q13:AddSyncJobResponse"/>
  </wsdl:message>
  <wsdl:message name="AddSyncStreamJobRequest">
    <wsdl:part
xmlns:q14="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob"
name="parameters" element="q14:AddSyncStreamJobRequest"/>
  </wsdl:message>
  <wsdl:message name="AddSyncStreamJobResponse">
    <wsdl:part
xmlns:q15="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/response"
name="parameters" element="q15:AddSyncStreamJobResponse"/>
  </wsdl:message>
  <wsdl:message name="GetSyncStreamOutputBytesRequest">
    <wsdl:part
xmlns:q16="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes"
name="parameters" element="q16:GetSyncStreamOutputBytesRequest"/>
  </wsdl:message>
  <wsdl:message name="GetSyncStreamOutputBytesResponse">
    <wsdl:part
xmlns:q17="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/r
esponse" name="parameters" element="q17:GetSyncStreamOutputBytesResponse"/>
  </wsdl:message>
  <wsdl:message name="AddJobRequest">
    <wsdl:part xmlns:q18="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
name="parameters" element="q18:AddJobRequest"/>
  </wsdl:message>
  <wsdl:message name="AddJobResponse">
    <wsdl:part xmlns:q18="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
name="parameters" element="q18:AddJobResponse"/>
  </wsdl:message>
  <wsdl:message name="AddGroupRequest">
    <wsdl:part xmlns:q19="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
name="parameters" element="q19:AddGroupRequest"/>
  </wsdl:message>
  <wsdl:message name="AddGroupResponse">
    <wsdl:part
xmlns:q20="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="parameters" element="q20:AddGroupResponse"/>
  </wsdl:message>
  <wsdl:message name="AddItemsRequest">
    <wsdl:part xmlns:q21="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
name="parameters" element="q21:AddItemsRequest"/>
  </wsdl:message>
  <wsdl:message name="AddItemsResponse">
    <wsdl:part
xmlns:q20="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="parameters" element="q20:AddItemsResponse"/>
  </wsdl:message>
  <wsdl:message name="SubmitJobRequest">

```



```

        <wsdl:part xmlns:q22="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
name="parameters" element="q22:SubmitJobRequest"/>
    </wsdl:message>
    <wsdl:message name="SubmitJobResponse">
        <wsdl:part
xmlns:q23="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
name="parameters" element="q23:SubmitJobResponse"/>
    </wsdl:message>
    <wsdl:message name="GetJobsRequest">
        <wsdl:part xmlns:q24="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
name="parameters" element="q24:GetJobsRequest"/>
    </wsdl:message>
    <wsdl:message name="GetJobsResponse">
        <wsdl:part
xmlns:tns5="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
name="parameters" element="tns5:GetJobsResponse"/>
    </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:tns3="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
name="parameters" element="tns3:GetGroupsResponse"/>
    </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="ConvertBatchRequest">
        <wsdl:part
xmlns:q1="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
name="parameters" element="q1:ConvertBatchRequest"/>
    </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:portType name="IConversionServiceApplication">
        <wsdl:operation name="Ping">
            <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping"
name="PingRequest" message="tns6:PingRequest"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
name="PingResponse" message="tns6:PingResponse"/>
        </wsdl:operation>
        <wsdl:operation name="CancelJob">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
name="CancelJobRequest" message="tns6:CancelJobRequest"/>

```

```

    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
name="CancelJobResponse" message="tns6:CancelJobResponse"/>
    </wsdl:operation>
    <wsdl:operation name="GetJobStatus">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
name="GetJobStatusRequest" message="tns6:GetJobStatusRequest"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
name="GetJobStatusResponse" message="tns6:GetJobStatusResponse"/>
    </wsdl:operation>
    <wsdl:operation name="BatchGetSyncJobStatus">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus"
name="BatchGetSyncJobStatusRequest" message="tns6:BatchGetSyncJobStatusRequest"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/respons
e" name="BatchGetSyncJobStatusResponse" message="tns6:BatchGetSyncJobStatusResponse"/>
    </wsdl:operation>
    <wsdl:operation name="AddSyncJob">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob"
name="AddSyncJobRequest" message="tns6:AddSyncJobRequest"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response"
name="AddSyncJobResponse" message="tns6:AddSyncJobResponse"/>
    </wsdl:operation>
    <wsdl:operation name="AddSyncStreamJob">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob"
name="AddSyncStreamJobRequest" message="tns6:AddSyncStreamJobRequest"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/respons
e" name="AddSyncStreamJobResponse" message="tns6:AddSyncStreamJobResponse"/>
    </wsdl:operation>
    <wsdl:operation name="GetSyncStreamOutputBytes">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes
" name="GetSyncStreamOutputBytesRequest" message="tns6:GetSyncStreamOutputBytesRequest"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes
/response" name="GetSyncStreamOutputBytesResponse"
message="tns6:GetSyncStreamOutputBytesResponse"/>
    </wsdl:operation>
    <wsdl:operation name="AddJob">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
name="AddJobRequest" message="tns6:AddJobRequest"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob/response"
name="AddJobResponse" message="tns6:AddJobResponse"/>
    </wsdl:operation>
    <wsdl:operation name="AddGroup">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
name="AddGroupRequest" message="tns6:AddGroupRequest"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="AddGroupResponse" message="tns6:AddGroupResponse"/>
    </wsdl:operation>
    <wsdl:operation name="AddItems">

```

```

        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
name="AddItemsRequest" message="tns6:AddItemsRequest"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
name="AddItemsResponse" message="tns6:AddItemsResponse"/>
    </wsdl:operation>
    <wsdl:operation name="SubmitJob">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
name="SubmitJobRequest" message="tns6:SubmitJobRequest"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
name="SubmitJobResponse" message="tns6:SubmitJobResponse"/>
    </wsdl:operation>
    <wsdl:operation name="GetJobs">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
name="GetJobsRequest" message="tns6:GetJobsRequest"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
name="GetJobsResponse" message="tns6:GetJobsResponse"/>
    </wsdl:operation>
    <wsdl:operation name="GetGroups">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
name="GetGroupsRequest" message="tns6:GetGroupsRequest"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
name="GetGroupsResponse" message="tns6:GetGroupsResponse"/>
    </wsdl:operation>
    <wsdl:operation name="GetItems">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
name="GetItemsRequest" message="tns6:GetItemsRequest"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
name="GetItemsResponse" message="tns6:GetItemsResponse"/>
    </wsdl:operation>
    <wsdl:operation name="ConvertBatch">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
name="ConvertBatchRequest" message="tns6:ConvertBatchRequest"/>
    </wsdl:operation>
    <wsdl:operation name="GetId">
        <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId"
name="GetIdRequest" message="tns6:GetIdRequest"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
name="GetIdResponse" message="tns6:GetIdResponse"/>
    </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="DefaultBinding_IConversionServiceApplication"
type="tns6: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:operation>

```

```

        <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: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">
        <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: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: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: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: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"/>
        </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:definitions>

```

7 Appendix B: Full XML Schema

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

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions	tns	7.1
http://schemas.microsoft.com/2003/10/Serialization/Arrays	tns1	7.2
http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob	q14	7.3
http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response	q7	7.4
http://schemas.microsoft.com/office/server/word/2009/08/cancelJob	q6	7.5
http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings	q2	7.6
http://schemas.microsoft.com/office/server/word/2009/08/convertBatch	q1	7.7
http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response	tns3	7.8
http://schemas.microsoft.com/office/server/word/2009/08/getGroups	q25	7.9
http://schemas.microsoft.com/office/server/word/2009/08/getId/response	q31	7.10
http://schemas.microsoft.com/office/server/word/2009/08/getId	q30	7.11
http://schemas.microsoft.com/office/server/word/2009/08/getItems/response	tns4	7.12
http://schemas.microsoft.com/2003/10/Serialization/	tns2	7.13
http://schemas.microsoft.com/office/server/word/2009/08/getItems	q27	7.14
http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response	tns5	7.15
http://schemas.microsoft.com/office/server/word/2009/08/getJobs	q24	7.16
http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response	q9	7.17
http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus	q8	7.18
http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response	q11	7.19
http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus	q10	7.20
http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/response	q17	7.21
http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes	q16	7.22
http://schemas.microsoft.com/office/server/word/2009/08/ping/response	q5	7.23

Schema name	Prefix	Section
http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response	q20	7.24
http://schemas.microsoft.com/office/server/word/2009/08/ping	q4	7.25
http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response	q23	7.26
http://schemas.microsoft.com/office/server/word/2009/08/submitJob	q22	7.27
http://schemas.datacontract.org/2004/07/System	q3	7.28
http://schemas.microsoft.com/office/server/word/2009/08/addGroup	q19	7.29
http://schemas.microsoft.com/office/server/word/2009/08/addItems	q21	7.30
http://schemas.microsoft.com/office/server/word/2009/08/addJob	q18	7.31
http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob/response	q13	7.32
http://schemas.microsoft.com/office/server/word/2009/08/addSyncJob	q12	7.33
http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob/response	q15	7.34

7.1

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

```

<?xml version="1.0"?>
<xs:schema
  xmlns:tns="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="Word2012"/>
      <xs:enumeration value="MaintainCurrentSetting"/>
      <xs:enumeration value="Current"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="CompatibilityMode" nillable="true" type="tns: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="tns:BalloonState"/>
  <xs:simpleType name="FixedFormatBookmark">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None"/>
      <xs:enumeration value="Headings"/>
    </xs:restriction>
  </xs:simpleType>

```



```

    <xs:enumeration value="Bookmarks"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="FixedFormatBookmark" nillable="true" type="tns:FixedFormatBookmark"/>
<xs:simpleType name="FixedFormatQuality">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Standard"/>
    <xs:enumeration value="Minimum"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="FixedFormatQuality" nillable="true" type="tns: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="tns: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="ODT"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="SaveFormat" nillable="true" type="tns: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="tns: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="tns:RevisionState"/>
</xs:schema>

```

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

```

<?xml version="1.0"?>
<xs:schema xmlns:tns1="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>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedLong" nillable="true" type="tns1: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="tns1: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="tns1: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:q1="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch" name="Value"
nillable="true" type="q1:ConvertBatchJob"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA" nillable="true"
type="tns1:ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA"/>
</xs:schema>

```

7.3

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

```

<?xml version="1.0"?>

```

```

<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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2:guid" />
        <xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q2:ConversionJobSettings" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

7.4

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

```

<?xml version="1.0"?>
<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"?>
<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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2: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"?>
<xs:schema
  xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
  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:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0" name="CompatibilityMode" type="tns: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="q2:FixedFormatSettings"/>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0" name="MarkupView" type="tns:MarkupTypes"/>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0" name="OutputFormat" type="tns:SaveFormat"/>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0" name="OutputSaveBehavior" type="tns:SaveBehavior"/>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0" name="RevisionState" type="tns: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="q2:ConversionJobSettings"/>
  <xs:complexType name="FixedFormatSettings">
    <xs:sequence>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0" name="BalloonState" type="tns:BalloonState"/>
      <xs:element minOccurs="0" name="BitmapEmbeddedFonts" type="xs:boolean"/>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0" name="Bookmarks" type="tns:FixedFormatBookmark"/>
      <xs:element minOccurs="0" name="IncludeDocumentProperties" type="xs:boolean"/>
      <xs:element minOccurs="0" name="IncludeDocumentStructure" type="xs:boolean"/>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0" name="OutputQuality" type="tns:FixedFormatQuality"/>
      <xs:element minOccurs="0" name="UsePDFa" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="FixedFormatSettings" nillable="true" type="q2:FixedFormatSettings"/>
</xs:schema>
```

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

```
<?xml version="1.0"?>
<xs:schema xmlns:q1="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/office/server/word/2009/08/conversionJobSettings"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:element name="ConvertBatchRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Items" nillable="true"
          type="q1:ArrayOfConvertBatchItem"/>
        <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0" name="Jobs" nillable="true"
          type="tns1:ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfConvertBatchItem">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ConvertBatchItem" nillable="true"
        type="q1:ConvertBatchItem"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfConvertBatchItem" nillable="true"
    type="q1: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>
  <xs:element name="ConvertBatchItem" nillable="true" type="q1:ConvertBatchItem"/>
  <xs:complexType name="ConvertBatchJob">
    <xs:sequence>
      <xs:element
        xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
        minOccurs="0" name="Settings" nillable="true" type="q2:ConversionJobSettings"/>
      <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ConvertBatchJob" nillable="true" type="q1:ConvertBatchJob"/>
</xs:schema>
```

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

```
<?xml version="1.0"?>
<xs:schema
  xmlns:tns3="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="tns3:ArrayOfGetGroupsGroup"/>
        <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfGetGroupsGroup">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="GetGroupsGroup" nillable="true"
type="tns3:GetGroupsGroup"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfGetGroupsGroup" nillable="true"
type="tns3: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="tns3:GetGroupsGroup"/>
</xs:schema>

```

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

```

<?xml version="1.0"?>
<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>
      <xs:sequence>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2: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"?>
<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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="Id" type="tns2: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"?>
<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"?>
<xs:schema
xmlns:tns4="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="tns4:GetItemsItem" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfGetItemsItem" nillable="true" type="tns4: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" />
      <xs:element minOccurs="0" name="OutputFile" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

```

    <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="tns4:GetItemsItem"/>
<xs:element name="Items" nillable="true" type="tns4:ArrayOfGetItemsItem"/>
</xs:schema>

```

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

```

<?xml version="1.0"?>
<xs:schema xmlns:tns2="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="tns2:char"/>
  <xs:simpleType name="char">
    <xs:restriction base="xs:int"/>
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns2: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="tns2: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"?>
<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/" />
  <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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2: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:tns4="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
minOccurs="0" ref="tns4: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"?>
<xs:schema
xmlns:tns5="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="tns5:ArrayOfGetJobsJob" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfGetJobsJob">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="GetJobsJob" nillable="true"
type="tns5:GetJobsJob" />
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

```

    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfGetJobsJob" nillable="true" type="tns5: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="tns5:GetJobsJob"/>
</xs:schema>

```

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

```

<?xml version="1.0"?>
<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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2: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"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
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>

```

```

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

```

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

```

<?xml version="1.0"?>
<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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2:guid" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

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

```

<?xml version="1.0"?>
<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:q3="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="ErrorCodes" nillable="true" type="q3:ArrayOfNullableOfint" />
        <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="JobIds" nillable="true" type="tns1:ArrayOfunsignedLong" />
        <xs:element minOccurs="0" name="MoreBytesToReceive" type="xs:boolean" />
        <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="OutputStreamsInBytes" nillable="true" type="tns1: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"?>

```

```

<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:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="JobIds" nillable="true" type="tns1: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"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/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>

```

7.22

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

```

<?xml version="1.0"?>
<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"?>
<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"?>
<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"?>
<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>
      <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"?>
<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"?>
<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"?>
<xs:schema xmlns:q3="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="q3:ArrayOfNullableOfint"/>
</xs:schema>
```

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

```
<?xml version="1.0"?>
<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>
    <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:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Items" nillable="true" type="tns1: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"?>
<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:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="InputUrls" nillable="true" type="tns1:ArrayOfstring"/>
        <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
        <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="OutputUrls" nillable="true" type="tns1: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"?>
<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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2:guid"/>
        <xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q2:ConversionJobSettings"/>
        <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddJobResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
</xs:schema>

```

7.32

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

```

<?xml version="1.0"?>
<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"?>
<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:tns2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="PartitionId" nillable="true" type="tns2:guid"/>
        <xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
minOccurs="0" name="Settings" nillable="true" type="q2: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"?>
<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>
```

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 released service packs:

- Microsoft® SharePoint® Server 2010
- Microsoft® SharePoint® Server 15 Technical Preview

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

[<1> Section 3.1.1.1:](#) This is available only in SharePoint Server 15 Technical Preview.

[<2> Section 3.1.4:](#) This operation is available only in SharePoint Server 15 Technical Preview.

[<3> Section 3.1.4:](#) This operation is available only in SharePoint Server 15 Technical Preview.

[<4> Section 3.1.4:](#) This operation is available only in SharePoint Server 15 Technical Preview.

[<5> Section 3.1.4:](#) This operation is available only in SharePoint Server 15 Technical Preview.

[<6> Section 3.1.4.13:](#) This operation is available only in SharePoint Server 15 Technical Preview.

[<7> Section 3.1.4.14:](#) This operation is available only in SharePoint Server 15 Technical Preview.

[<8> Section 3.1.4.15:](#) This operation is available only in SharePoint Server 15 Technical Preview.

[<9> Section 3.1.4.16:](#) This operation is available only in SharePoint Server 15 Technical Preview.

9 Change Tracking

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
1.2.1 Normative References	Revised to reflect the current and most pertinent references.	N	Content updated due to protocol revision
2.2.1 Namespaces	Modified extensively to support revisions.	Y	Content updated due to protocol revision
2.2.3.5 UserToken	changed reference from MS-WSSFO to MS-WSSFO2	N	Content updated
2.2.4.1 ArrayOfstring	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision
2.2.4.2 ConversionJobSettings	Modified schema: added namespace	Y	Protocol syntax

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	and revised the elements CompatibilityMode, markupview, OutputFormat, OutputSaveBehavior, RevisionState.		updated due to protocol revision .
2.2.4.3 FixedFormatSettings	Modified schema: added namespace and revised the elements BalloonState, Bookmarks, OutputQuality.	Y	Protocol syntax updated due to protocol revision .
2.2.5 Simple Types	Revised descriptions.	N	Content updated due to protocol revision .
2.2.5.1 BalloonState	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
2.2.5.2 CompatibilityMode	Modified schema: added namespace and new value of "Word2012".	Y	Protocol syntax updated due to protocol revision .
2.2.5.3 FixedFormatBookmark	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
2.2.5.4 FixedFormatQuality	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
2.2.5.5 guid	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
2.2.5.6 MarkupTypes	Modified schema: added namespace and description.	Y	Protocol syntax updated due to protocol revision .
2.2.5.7 RevisionState	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
2.2.5.8 SaveBehavior	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
2.2.5.9 SaveFormat	Modified schema: added namespace and new value of "ODT".	Y	Protocol syntax updated due to protocol revision .
3.1.1.1 Immediate Conversion Jobs	Added information regarding new job.	N	New content added due to protocol revision .
3.1.1.1 Immediate Conversion Jobs	Added support restrictions.	Y	New product behavior note added.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
3.1.4 Message Processing Events and Sequencing Rules	Revised summary table to include new operations: AddSyncJob, AddSyncStreamJob, BatchGetSynclobStatus, GetSyncStreamOutputBytes.	Y	Content updated due to protocol revision.
3.1.4 Message Processing Events and Sequencing Rules	Added support restrictions.	Y	New product behavior note added.
3.1.4.1 AddGroup	Modified schema: added namespaces and prefixes.	Y	Protocol syntax updated due to protocol revision.
3.1.4.1.2 AddGroupResponse	Modified: removed SOAP action value.	Y	Content updated due to protocol revision.
3.1.4.1.2.1 AddGroupRequest	Modified schema: added namespace and revised the element Items.	Y	Protocol syntax updated due to protocol revision.
3.1.4.1.2.2 AddGroupResponse	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision.
3.1.4.2 AddItems	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			.
3.1.4.2.1.2 AddItemsResponse	Modified: removed SOAP action value.	Y	Content updated due to protocol revision .
3.1.4.2.2.1 AddItemsRequest	Modified schema: added namespaces and revised the elements InputUrls and OutputUrls.	Y	Protocol syntax updated due to protocol revision .
3.1.4.2.2.2 AddItemsResponse	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.3 AddJob	changed reference from MS-WSSFO to MS-WSSFO2	N	Content updated .
3.1.4.3 AddJob	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.3.1.2 AddJobResponse	Modified: removed SOAP action value.	Y	Content updated due to protocol revision .
3.1.4.3.2.1 AddJobRequest	Modified schema: added namespace and revised the elements PartitionID and Settings.	Y	Protocol syntax updated due to protocol revision .
3.1.4.3.2.2 AddJobResponse	Modified schema: added namespace.	Y	Protocol syntax

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			updated due to protocol revision .
3.1.4.4 CancelJob	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.4.1.2 CancelJobResponse	Modified: removed the SOAP action value.	Y	Content updated due to protocol revision .
3.1.4.4.2.1 CancelJobRequest	Modified schema: added namespace and revised the element PartitionId.	Y	Protocol syntax updated due to protocol revision .
3.1.4.4.2.2 CancelJobResponse	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.5 ConvertBatch	clarified that this operation is asynchronous	N	Content updated .
3.1.4.5 ConvertBatch	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.5.2.1 ConvertBatchRequest	Modified schema: added namespace and revised the element Jobs.	Y	Protocol syntax updated due to protocol

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			revision .
3.1.4.5.3 Complex Types	Added summary table of complex types for the ConvertBatch operation.	N	Content updated for template compliance.
3.1.4.5.3.1 ArrayOfConvertBatchItem	Modified schema: added namespace and revised the type attribute for the ConvertBatchItem element.	Y	Protocol syntax updated due to protocol revision .
3.1.4.5.3.2 ConvertBatchItem	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.5.3.3 ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.5.3.4 ConvertBatchJob	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.6 GetGroups	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.6.1.2 GetGroupsResponse	Modified: removed the SOAP action value.	N	Content updated due to

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			protocol revision .
3.1.4.6.2.1 GetGroupsRequest	Modified schema: added namespace and revised the element PartitionId.	Y	Protocol syntax updated due to protocol revision .
3.1.4.6.2.2 GetGroupsResponse	Modified schema: added namespace and revised the elements Groups and Settings.	Y	Protocol syntax updated due to protocol revision .
3.1.4.6.3 Complex Types	Added summary table of complex types for the GetGroups operation.	N	Content updated for template compliance.
3.1.4.6.3.1 ArrayOfGetGroupsGroup	Modified schema: added namespace and revised the type attribute of the element GetGroupsGroup.	Y	Protocol syntax updated due to protocol revision .
3.1.4.6.3.2 GetGroupsGroup	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.7 GetId	Modified schema: added namespaces and revised the prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.7.1.2 GetIdResponse	Modified: removed the SOAP action	N	Content updated

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	value.		due to protocol revision .
3.1.4.7.2.1 GetIdRequest	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.7.2.2 GetIdResponse	Modified schema: added namespace and revised the element Id.	Y	Protocol syntax updated due to protocol revision .
3.1.4.7.6 Groups	Modified schema: added namespace and revised the element Id.	Y	Protocol syntax updated due to protocol revision .
3.1.4.8 GetItems	Modified schema: added namespaces and revised the prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.8.1.2 GetItemsResponse	Modified: removed the SOAP action value.	N	Content updated due to protocol revision .
3.1.4.8.2.1 GetItemsRequest	Modified schema: added namespace and revised the element PartitionId.	Y	Protocol syntax updated due to protocol revision .
3.1.4.8.2.2 GetItemsResponse	Modified schema: added namespace	Y	Protocol syntax

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	and revised the element.		updated due to protocol revision .
3.1.4.8.3 Complex Types	Added summary table of complex types for the GetItems operation.	N	Content updated for template compliance.
3.1.4.8.3.1 ArrayOfGetItemsItem	Modified schema: added namespace and revised the type attribute for the element GetItemsItem.	Y	Protocol syntax updated due to protocol revision .
3.1.4.8.3.2 GetItemsItem	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.9 GetJobs	changed reference from MS-WSSFO to MS-WSSFO2	N	Content updated .
3.1.4.9 GetJobs	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.9.1.2 GetJobsResponse	Modified: removed the SOAP action value.	N	Content updated due to protocol revision .
3.1.4.9.2.1 GetJobsRequest	Modified schema: added namespace and revised the element PartitionId.	Y	Protocol syntax updated due to protocol

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			revision
3.1.4.9.2.2 GetJobsResponse	Modified schema: added namespace and revised the type attribute for the element Jobs.	Y	Protocol syntax updated due to protocol revision
3.1.4.9.3 Complex Types	Added summary table of complex types for the GetJobs operation.	N	Content updated for template compliance.
3.1.4.9.3.1 ArrayOfGetJobsJob	Modified schema: added namespace and revised the type attribute for the element GetJobsJob.	Y	Protocol syntax updated due to protocol revision
3.1.4.9.3.2 GetJobsJob	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision
3.1.4.10 GetJobStatus	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision
3.1.4.10.1.2 GetJobStatusResponse	Modified: removed the SOAP action value.	N	Content updated due to protocol revision
3.1.4.10.2.1 GetJobStatusRequest	Modified schema: added namespace and revised the element	Y	Protocol syntax updated due to

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	PartitionId.		protocol revision .
3.1.4.10.2.2 GetJobStatusResponse	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.11 Ping	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.11.1.2 PingResponse	Modified: removed the SOAP action value.	N	Content updated due to protocol revision .
3.1.4.11.2.1 PingRequest	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.11.2.2 PingResponse	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.12 SubmitJob	Modified schema: added namespaces and revised prefixes.	Y	Protocol syntax updated due to protocol revision .
3.1.4.12.1.2 SubmitJobResponse	Modified: removed the SOAP action value.	N	Content updated due to

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			protocol revision .
3.1.4.12.2.1 SubmitJobRequest	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.12.2.2 SubmitJobResponse	Modified schema: added namespace.	Y	Protocol syntax updated due to protocol revision .
3.1.4.13 AddSyncJob	Added new operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.13 AddSyncJob	Added support restrictions.	Y	New product behavior note added.
3.1.4.13.1 Messages	Added summary table of messages for the AddSyncJob operation.	N	New content added for template compliance.
3.1.4.13.1.1 AddSyncJobRequest	Added new message for the AddSyncJob operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.13.1.2	Added new	Y	New

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
AddSyncJobResponse	message for the AddSyncJob operation.		protocol syntax added due to protocol revision .
3.1.4.13.2 Elements	Added summary table of elements for the AddSyncJob operation.	N	New content added for template compliance.
3.1.4.13.2.1 AddSyncJobRequest	Added new element for the AddSyncJob operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.13.2.2 AddSyncJobResponse	Added new element for the AddSyncJob operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.14 AddSyncStreamJob	Added new operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.14 AddSyncStreamJob	Added support restrictions.	Y	New product behavior note added.
3.1.4.14.1 Messages	Added summary table of messages for the AddSyncStreamJob	N	New content added for

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	operation.		template compliance.
3.1.4.14.1.1 AddSyncStreamJobRequest	Added new message for the AddSyncStreamJob operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.14.1.2 AddSyncStreamJobResponse	Added new message for the AddSyncStreamJob operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.14.2 Elements	Added summary table of elements for the AddSyncStreamJob operation.	N	New content added for template compliance.
3.1.4.14.2.1 AddSyncStreamJobRequest	Added new element for the AddSyncStreamJob operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.14.2.2 AddSyncStreamJobResponse	Added new element for the AddSyncStreamJob operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.15 BatchGetSyncJobStatus	Added new operation.	Y	New protocol syntax added

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			due to protocol revision .
3.1.4.15 BatchGetSyncJobStatus	Added support restrictions.	Y	New product behavior note added.
3.1.4.15.1 Messages	Added summary table of messages for the BatchGetSyncJobStatus operation.	N	New content added for template compliance.
3.1.4.15.1.1 BatchGetSyncJobStatusRequest	Added new message for the BatchGetSyncJobStatus operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.15.1.2 BatchGetSyncJobStatusResponse	Added new message for the BatchGetSyncJobStatus operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.15.2 Elements	Added summary table of elements for the BatchGetSyncJobStatus operation.	N	New content added for template compliance.
3.1.4.15.2.1 BatchGetSyncJobStatusRequest	Added new element for the BatchGetSyncJobStatus operation.	Y	New protocol syntax added due to protocol revision

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			.
3.1.4.15.2.2 BatchGetSyncJobStatusResponse	Added new element for the BatchGetSyncJobStatus operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.15.3 Complex Types	Added a summary table of complex types for the BatchGetSyncJobStatus operation.	N	New content added due to protocol revision .
3.1.4.15.3.1 ArrayOfNullableOfint	Added new complex type for the BatchGetSyncJobStatus operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.15.3.2 ArrayOfbase64Binary	Added new complex type for the BatchGetSyncJobStatus operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.15.3.3 ArrayOfunsignedLong	Added new complex type for the BatchGetSyncJobStatus operation.	Y	New protocol syntax added due to protocol revision .
3.1.4.16 GetSyncStreamOutputBytes	Added new operation.	Y	New protocol syntax added due to protocol revision .

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
3.1.4.16 GetSyncStreamOutputBytes	Added support restrictions.	Y	New product behavior note added.
3.1.4.16.1 Messages	Added summary table of messages for the GetSyncStreamOutputBytes operation.	N	New content added for template compliance.
3.1.4.16.1.1 GetSyncStreamOutputBytesRequest	Added new message for the GetSyncStreamOutputBytes operation.	Y	New protocol syntax added due to protocol revision.
3.1.4.16.1.2 GetSyncStreamOutputBytesResponse	Added new message for the GetSyncStreamOutputBytes operation.	Y	New protocol syntax added due to protocol revision.
3.1.4.16.2 Elements	Added summary table of elements for the GetSyncStreamOutputBytes operation.	N	New content added for template compliance.
3.1.4.16.2.1 GetSyncStreamOutputBytesRequest	Added new element for the GetSyncStreamOutputBytes operation.	Y	New protocol syntax added due to protocol revision.
3.1.4.16.2.2 GetSyncStreamOutputBytesResponse	Added new element for the GetSyncStreamOutputBytes operation.	Y	New protocol syntax

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	putBytes operation.		added due to protocol revision .
4.3 Creating an Immediate Conversion Job	Added new example.	N	New content added due to protocol revision .
4.3.1 The input file is stored on the protocol server	Added new example.	N	New content added due to protocol revision .
4.3.2 The input file is stored on a non-server location	Added new example.	N	New content added due to protocol revision .
6 Appendix A: Full WSDL	Modified schema.	Y	Protocol syntax updated due to protocol revision .
7 Appendix B: Full XML Schema	Modified: added summary table of schemas used by this protocol.	N	Content updated due to protocol revision .
7.1 http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions Schema	Modified schema.	Y	Protocol syntax updated due to protocol revision .
7.2	Added new	Y	New

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema	schema.		protocol syntax added due to protocol revision .
7.3 http://schemas.microsoft.com/office/server/word/2009/08/addSyncStreamJob Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.4 http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.5 http://schemas.microsoft.com/office/server/word/2009/08/cancelJob Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.6 http://schemas.microsoft.com/office/server/word/2009/08/convertionJobSettings Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.7 http://schemas.microsoft.com/office/server/word/2009/08/convertBatch Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.8	Added new	Y	New

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response Schema	schema.		protocol syntax added due to protocol revision .
7.9 http://schemas.microsoft.com/office/server/word/2009/08/getGroups Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.10 http://schemas.microsoft.com/office/server/word/2009/08/getId/response Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.11 http://schemas.microsoft.com/office/server/word/2009/08/getId Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.12 http://schemas.microsoft.com/office/server/word/2009/08/getItems/response Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.13 http://schemas.microsoft.com/2003/10/Serialization/ Schema	Modified schema.	Y	Protocol syntax updated due to protocol revision .
7.14 http://schemas.microsoft.com/office/server/word/2009/08/getItems Schema	Added new schema.	Y	New protocol

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
ms Schema			syntax added due to protocol revision .
7.15 http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response_Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.16 http://schemas.microsoft.com/office/server/word/2009/08/getJobs_Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.17 http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response_Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.18 http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus_Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.19 http://schemas.microsoft.com/office/server/word/2009/08/getSyncJobStatus/response_Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.20 http://schemas.microsoft.com/office/server/word/2009/08/getSync	Added new schema.	Y	New protocol

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
cJobStatus Schema			syntax added due to protocol revision .
7.21 http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes/response Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.22 http://schemas.microsoft.com/office/server/word/2009/08/getSyncStreamOutputBytes Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.23 http://schemas.microsoft.com/office/server/word/2009/08/ping/response Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.24 http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.25 http://schemas.microsoft.com/office/server/word/2009/08/ping Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.26 http://schemas.microsoft.com/office/server/word/2009/08/submit	Added new schema.	Y	New protocol

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
Job/response Schema			syntax added due to protocol revision .
7.27 http://schemas.microsoft.com/office/server/word/2009/08/submitJob Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.28 http://schemas.datacontract.org/2004/07/System Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.29 http://schemas.microsoft.com/office/server/word/2009/08/addGroup Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.30 http://schemas.microsoft.com/office/server/word/2009/08/addItems Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.31 http://schemas.microsoft.com/office/server/word/2009/08/addJob Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.32 http://schemas.microsoft.com/office/server/word/2009/08/addSyn	Added new schema.	Y	New protocol

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
cJob/response Schema			syntax added due to protocol revision .
7.33 http://schemas.microsoft.com/office/server/word/2009/08/addSyn cJob Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
7.34 http://schemas.microsoft.com/office/server/word/2009/08/addSyn cStreamJob/response Schema	Added new schema.	Y	New protocol syntax added due to protocol revision .
8 Appendix C: Product Behavior	Modified list of applicable products.	N	Content updated due to protocol revision .
	Added summary table of messages for each operation.	N	New content added for template compliance.
	Added summary table of elements for each operation.	N	New content added for template compliance.
	Added, if missing, new sections for each operation: Complex Types,	N	New content added for

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	Simple Types, Attributes, Groups, Attribute Groups.		template compliance.

Preliminary

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