



Web Services Reference

Version 3.6

LogicalDOC 3.6 Web Services Reference

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1 Introduction

LogicalDOC can be used as middleware and can be integrated with other system by the use of the built-in Web Service.

The Web Service module is part of the LogicalDOC core distribution and is compliant with W3C specifications SOAP and MTOM. Using SOAP over HTTP allows for easier communication through proxies and firewalls than previous remote execution technology. MTOM is a method of efficiently sending binary data to and from web services; it allows more efficient sending of binary data in a SOAP request or response.

The LogicalDOC Web Service can be simply invoked through:
http://localhost:<port number>/logicaldoc/services/Dms?wsdl.

2 Operations

This chapter lists and describes all operations that the web service makes available to the users.

Mandatory input parameters are in **bold and italic**.

2.1 Check In

<i>operation: checkin</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>id</i>	<i>long</i>	<i>document identifier</i>
<i>filename</i>	<i>string</i>	<i>name of the file to check in</i>
description	string	document's version description
type	string	document's version type (can be one of 'release' or 'subversion')
<i>content</i>	<i>binary</i>	<i>file content</i>
output		
	string	'ok' or 'document not checked out'

This operation allows to upload a new version of an already checked out document.

2.2 Check Out

<i>operation: checkout</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>id</i>	<i>long</i>	<i>document identifier</i>
output		
	string	'ok' or 'error'

This operation allows to mark a document as checked out.

2.3 Create Document

<i>operation: createDocument</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>folder</i>	<i>long</i>	<i>folder identifier</i>
doctitle	string	document's title
source	string	document's source
sourceDate	string	document's source date
author	string	document's source author
sourceType	string	document's source type
coverage	string	document's coverage
language	string	document's language
keywords	string	document's keywords
versionDesc	string	document's version description
filename	string	document's title
<i>content</i>	<i>binary</i>	<i>file content</i>
output		
	string	newly created document ID or 'error'

This operation allows to create a new document. The user can completely customize the document through many optional fields.

2.4 Create Folder

<i>operation: createfolder</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>name</i>	<i>string</i>	<i>folder name</i>
<i>parent</i>	<i>int</i>	<i>parent folder identifier</i>
output		
	<i>string</i>	<i>newly created folder ID or 'error'</i>

This operation allows to create a new folder with a given name and under a specific parent folder. It also assigns the same folder permissions of the parent folder.

2.5 Delete Document

<i>operation: deleteDocument</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>id</i>	<i>long</i>	<i>document identifier</i>
output		
	<i>string</i>	<i>'ok'</i>

This operation allows to delete an existing document with the given identifier.

2.6 Delete Folder

<i>operation: deleteFolder</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>id</i>	<i>long</i>	<i>folder identifier</i>
output		
	<i>string</i>	<i>'ok' or 'error'</i>

This operation allows to delete an existing folder.

2.7 Download Document

<i>operation: downloadDocument</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>id</i>	<i>long</i>	<i>folder identifier</i>
version	string	document's version
output		
	binary	requested document's binary

This operation allows to download a document with the given identifier. The document content is sent as attachment.

2.8 Download Document Info

<i>operation: downloadDocumentInfo</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>id</i>	<i>long</i>	<i>document identifier</i>
output		
	DocumentInfo	requested document's information

This operation allows to retrieve the meta-data of a document with the given identifier.

2.9 Download Folder Content

<i>operation: downloadFolderContent</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>id</i>	<i>long</i>	<i>folder identifier</i>
output		
	FolderContent	requested folder's information

This operation allows to retrieve the meta-data of a folder with a given identifier.

2.10 Search

<i>operation: search</i>		
input		
<i>username</i>	<i>string</i>	<i>username used to log in</i>
<i>password</i>	<i>string</i>	<i>password used to log in</i>
<i>query</i>	<i>string</i>	<i>query</i>
indexLanguage	string	index language(if 'null' all indexes are considered)
queryLanguage	string	language in which the query is expressed
maxHits	int	max number of hits to be returned
output		
	SearchResult	search hits

This operation allows to retrieve all documents that are been found through the given query.

3 Appendix

3.1 WSDL

This document is in XML format and describes network services as a set of endpoints operating on messages containing either document-oriented or procedure-oriented information. The operations and messages are described abstractly, and then bound to a concrete network protocol and message format to define an endpoint. Related concrete endpoints are combined into abstract endpoints (services).

You can obtain the WSDL descriptor document directly from your running instance of LogicalDOC by pointing your browser at <http://localhost:8080/logicaldoc/services/Dms?wsdl>.

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions name="DmsService" targetNamespace="http://webservice.logicaldoc.com/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://webservice.logicaldoc.com/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <wsdl:types>
    <xs:schema attributeFormDefault="unqualified" elementFormDefault="unqualified"
targetNamespace="http://webservice.logicaldoc.com/" xmlns:tns="http://webservice.logicaldoc.com/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:complexType name="documentInfo">
        <xs:sequence>
          <xs:element minOccurs="0" name="author" type="xs:string"/>
          <xs:element minOccurs="0" name="coverage" type="xs:string"/>
          <xs:element minOccurs="0" name="filename" type="xs:string"/>
          <xs:element name="folderId" type="xs:long"/>
          <xs:element minOccurs="0" name="folderName" type="xs:string"/>
          <xs:element name="id" type="xs:long"/>
          <xs:element minOccurs="0" name="language" type="xs:string"/>
          <xs:element minOccurs="0" name="publisher" type="xs:string"/>
          <xs:element minOccurs="0" name="source" type="xs:string"/>
          <xs:element minOccurs="0" name="sourceDate" type="xs:string"/>
          <xs:element minOccurs="0" name="title" type="xs:string"/>
          <xs:element minOccurs="0" name="type" type="xs:string"/>
          <xs:element minOccurs="0" name="uploadDate" type="xs:string"/>
          <xs:element maxOccurs="unbounded" minOccurs="0" name="version" nillable="true"
type="tns:versionInfo"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="versionInfo">
        <xs:sequence>
          <xs:element minOccurs="0" name="comment" type="xs:string"/>
          <xs:element minOccurs="0" name="date" type="xs:string"/>
          <xs:element minOccurs="0" name="user" type="xs:string"/>
          <xs:element minOccurs="0" name="version" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="searchResult">
        <xs:sequence>
          <xs:element name="estimatedHitsNumber" type="xs:long"/>
          <xs:element name="moreHits" type="xs:int"/>
          <xs:element maxOccurs="unbounded" minOccurs="0" name="result" nillable="true"
type="tns:result"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="result">
        <xs:sequence>
          <xs:element name="date" type="xs:string"/>
          <xs:element name="id" type="xs:long"/>
          <xs:element name="length" type="xs:int"/>
          <xs:element name="score" type="xs:int"/>
          <xs:element minOccurs="0" name="summary" type="xs:string"/>
          <xs:element minOccurs="0" name="title" type="xs:string"/>
          <xs:element minOccurs="0" name="type" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:schema>
  </wsdl:types>

```

```

        </xs:sequence>
    </xs:complexType>
    <xs:complexType name="folderContent">
        <xs:sequence>
            <xs:element maxOccurs="unbounded" minOccurs="0" name="document" nillable="true"
type="tns:content"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" name="folder" nillable="true"
type="tns:content"/>
            <xs:element name="id" type="xs:long"/>
            <xs:element minOccurs="0" name="name" type="xs:string"/>
            <xs:element name="parentId" type="xs:long"/>
            <xs:element minOccurs="0" name="parentName" type="xs:string"/>
            <xs:element name="writeable" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType name="content">
        <xs:sequence>
            <xs:element name="id" type="xs:long"/>
            <xs:element minOccurs="0" name="title" type="xs:string"/>
            <xs:element name="writeable" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType final="#all" name="versionInfoArray">
        <xs:sequence>
            <xs:element maxOccurs="unbounded" minOccurs="0" name="item" nillable="true"
type="tns:versionInfo"/>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType final="#all" name="resultArray">
        <xs:sequence>
            <xs:element maxOccurs="unbounded" minOccurs="0" name="item" nillable="true"
type="tns:result"/>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType final="#all" name="contentArray">
        <xs:sequence>
            <xs:element maxOccurs="unbounded" minOccurs="0" name="item" nillable="true"
type="tns:content"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="createDocument" type="tns:createDocument"/>
    <xs:complexType name="createDocument">
        <xs:sequence>
            <xs:element minOccurs="0" name="username" type="xs:string"/>
            <xs:element minOccurs="0" name="password" type="xs:string"/>
            <xs:element name="folder" type="xs:long"/>
            <xs:element minOccurs="0" name="docTitle" type="xs:string"/>
            <xs:element minOccurs="0" name="source" type="xs:string"/>
            <xs:element minOccurs="0" name="sourceDate" type="xs:string"/>
            <xs:element minOccurs="0" name="author" type="xs:string"/>
            <xs:element minOccurs="0" name="sourceType" type="xs:string"/>
            <xs:element minOccurs="0" name="coverage" type="xs:string"/>
            <xs:element minOccurs="0" name="language" type="xs:string"/>
            <xs:element minOccurs="0" name="keywords" type="xs:string"/>
            <xs:element minOccurs="0" name="versionDesc" type="xs:string"/>
            <xs:element minOccurs="0" name="filename" type="xs:string"/>
            <xs:element minOccurs="0" name="content" type="xs:base64Binary"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="createDocumentResponse" type="tns:createDocumentResponse"/>
    <xs:complexType name="createDocumentResponse">
        <xs:sequence>
            <xs:element minOccurs="0" name="return" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="checkout" type="tns:checkout"/>
    <xs:complexType name="checkout">
        <xs:sequence>
            <xs:element minOccurs="0" name="username" type="xs:string"/>
            <xs:element minOccurs="0" name="password" type="xs:string"/>
            <xs:element name="id" type="xs:long"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="checkoutResponse" type="tns:checkoutResponse"/>
    <xs:complexType name="checkoutResponse">
        <xs:sequence>
            <xs:element minOccurs="0" name="return" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>

```

```

    </xs:sequence>
</xs:complexType>
<xs:element name="createFolder" type="tns:createFolder"/>
<xs:complexType name="createFolder">
  <xs:sequence>
    <xs:element minOccurs="0" name="username" type="xs:string"/>
    <xs:element minOccurs="0" name="password" type="xs:string"/>
    <xs:element minOccurs="0" name="name" type="xs:string"/>
    <xs:element name="parent" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="createFolderResponse" type="tns:createFolderResponse"/>
<xs:complexType name="createFolderResponse">
  <xs:sequence>
    <xs:element minOccurs="0" name="return" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="downloadDocumentInfo" type="tns:downloadDocumentInfo"/>
<xs:complexType name="downloadDocumentInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="username" type="xs:string"/>
    <xs:element minOccurs="0" name="password" type="xs:string"/>
    <xs:element name="id" type="xs:long"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="downloadDocumentInfoResponse" type="tns:downloadDocumentInfoResponse"/>
<xs:complexType name="downloadDocumentInfoResponse">
  <xs:sequence>
    <xs:element minOccurs="0" name="return" type="tns:documentInfo"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="checkin" type="tns:checkin"/>
<xs:complexType name="checkin">
  <xs:sequence>
    <xs:element minOccurs="0" name="username" type="xs:string"/>
    <xs:element minOccurs="0" name="password" type="xs:string"/>
    <xs:element name="id" type="xs:long"/>
    <xs:element minOccurs="0" name="filename" type="xs:string"/>
    <xs:element minOccurs="0" name="description" type="xs:string"/>
    <xs:element minOccurs="0" name="type" type="xs:string"/>
    <xs:element minOccurs="0" name="content" type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="checkinResponse" type="tns:checkinResponse"/>
<xs:complexType name="checkinResponse">
  <xs:sequence>
    <xs:element minOccurs="0" name="return" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="downloadDocument" type="tns:downloadDocument"/>
<xs:complexType name="downloadDocument">
  <xs:sequence>
    <xs:element minOccurs="0" name="username" type="xs:string"/>
    <xs:element minOccurs="0" name="password" type="xs:string"/>
    <xs:element name="id" type="xs:long"/>
    <xs:element minOccurs="0" name="version" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="downloadDocumentResponse" type="tns:downloadDocumentResponse"/>
<xs:complexType name="downloadDocumentResponse">
  <xs:sequence>
    <xs:element minOccurs="0" name="return" type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="search" type="tns:search"/>
<xs:complexType name="search">
  <xs:sequence>
    <xs:element minOccurs="0" name="username" type="xs:string"/>
    <xs:element minOccurs="0" name="password" type="xs:string"/>
    <xs:element minOccurs="0" name="query" type="xs:string"/>
    <xs:element minOccurs="0" name="indexLanguage" type="xs:string"/>
    <xs:element minOccurs="0" name="queryLanguage" type="xs:string"/>
    <xs:element name="maxHits" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="searchResponse" type="tns:searchResponse"/>
<xs:complexType name="searchResponse">

```

```

        <xs:sequence>
          <xs:element minOccurs="0" name="return" type="tns:searchResult"/>
        </xs:sequence>
      </xs:complexType>
    <xs:element name="downloadFolderContent" type="tns:downloadFolderContent"/>
    <xs:complexType name="downloadFolderContent">
      <xs:sequence>
        <xs:element minOccurs="0" name="username" type="xs:string"/>
        <xs:element minOccurs="0" name="password" type="xs:string"/>
        <xs:element name="folder" type="xs:long"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="downloadFolderContentResponse" type="tns:downloadFolderContentResponse"/>
    <xs:complexType name="downloadFolderContentResponse">
      <xs:sequence>
        <xs:element minOccurs="0" name="return" type="tns:folderContent"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="deleteDocument" type="tns:deleteDocument"/>
    <xs:complexType name="deleteDocument">
      <xs:sequence>
        <xs:element minOccurs="0" name="username" type="xs:string"/>
        <xs:element minOccurs="0" name="password" type="xs:string"/>
        <xs:element name="id" type="xs:long"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="deleteDocumentResponse" type="tns:deleteDocumentResponse"/>
    <xs:complexType name="deleteDocumentResponse">
      <xs:sequence>
        <xs:element minOccurs="0" name="return" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="deleteFolder" type="tns:deleteFolder"/>
    <xs:complexType name="deleteFolder">
      <xs:sequence>
        <xs:element minOccurs="0" name="username" type="xs:string"/>
        <xs:element minOccurs="0" name="password" type="xs:string"/>
        <xs:element name="folder" type="xs:long"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="deleteFolderResponse" type="tns:deleteFolderResponse"/>
    <xs:complexType name="deleteFolderResponse">
      <xs:sequence>
        <xs:element minOccurs="0" name="return" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:schema>
</wsdl:types>
<wsdl:message name="downloadFolderContentResponse">
  <wsdl:part element="tns:downloadFolderContentResponse" name="parameters"/>
</wsdl:message>
<wsdl:message name="search">
  <wsdl:part element="tns:search" name="parameters"/>
</wsdl:message>
<wsdl:message name="deleteFolder">
  <wsdl:part element="tns:deleteFolder" name="parameters"/>
</wsdl:message>
<wsdl:message name="checkin">
  <wsdl:part element="tns:checkin" name="parameters"/>
</wsdl:message>
<wsdl:message name="createDocument">
  <wsdl:part element="tns:createDocument" name="parameters"/>
</wsdl:message>
<wsdl:message name="checkout">
  <wsdl:part element="tns:checkout" name="parameters"/>
</wsdl:message>
<wsdl:message name="checkoutResponse">
  <wsdl:part element="tns:checkoutResponse" name="parameters"/>
</wsdl:message>
<wsdl:message name="downloadFolderContent">

```

```

    <wsdl:part element="tns:downloadFolderContent" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="deleteDocumentResponse">
  <wsdl:part element="tns:deleteDocumentResponse" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="searchResponse">
  <wsdl:part element="tns:searchResponse" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="downloadDocumentInfo">
  <wsdl:part element="tns:downloadDocumentInfo" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="checkinResponse">
  <wsdl:part element="tns:checkinResponse" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="createFolderResponse">
  <wsdl:part element="tns:createFolderResponse" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="downloadDocumentResponse">
  <wsdl:part element="tns:downloadDocumentResponse" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="createDocumentResponse">
  <wsdl:part element="tns:createDocumentResponse" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="deleteFolderResponse">
  <wsdl:part element="tns:deleteFolderResponse" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="downloadDocument">
  <wsdl:part element="tns:downloadDocument" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="downloadDocumentInfoResponse">
  <wsdl:part element="tns:downloadDocumentInfoResponse" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="deleteDocument">
  <wsdl:part element="tns:deleteDocument" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="createFolder">
  <wsdl:part element="tns:createFolder" name="parameters">
  </wsdl:part>
</wsdl:message>
<wsdl:portType name="DmsService">
  <wsdl:operation name="createDocument">
    <wsdl:input message="tns:createDocument" name="createDocument">
    </wsdl:input>
    <wsdl:output message="tns:createDocumentResponse" name="createDocumentResponse">
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="checkout">
    <wsdl:input message="tns:checkout" name="checkout">
    </wsdl:input>
    <wsdl:output message="tns:checkoutResponse" name="checkoutResponse">
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="createFolder">
    <wsdl:input message="tns:createFolder" name="createFolder">
    </wsdl:input>
    <wsdl:output message="tns:createFolderResponse" name="createFolderResponse">
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="downloadDocumentInfo">
    <wsdl:input message="tns:downloadDocumentInfo" name="downloadDocumentInfo">
    </wsdl:input>
    <wsdl:output message="tns:downloadDocumentInfoResponse" name="downloadDocumentInfoResponse">
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="checkin">

```

```

    <wsdl:input message="tns:checkin" name="checkin">
  </wsdl:input>
  <wsdl:output message="tns:checkinResponse" name="checkinResponse">
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="downloadDocument">
  <wsdl:input message="tns:downloadDocument" name="downloadDocument">
</wsdl:input>
  <wsdl:output message="tns:downloadDocumentResponse" name="downloadDocumentResponse">
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="search">
  <wsdl:input message="tns:search" name="search">
</wsdl:input>
  <wsdl:output message="tns:searchResponse" name="searchResponse">
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="downloadFolderContent">
  <wsdl:input message="tns:downloadFolderContent" name="downloadFolderContent">
</wsdl:input>
  <wsdl:output message="tns:downloadFolderContentResponse"
name="downloadFolderContentResponse">
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="deleteDocument">
  <wsdl:input message="tns:deleteDocument" name="deleteDocument">
</wsdl:input>
  <wsdl:output message="tns:deleteDocumentResponse" name="deleteDocumentResponse">
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="deleteFolder">
  <wsdl:input message="tns:deleteFolder" name="deleteFolder">
</wsdl:input>
  <wsdl:output message="tns:deleteFolderResponse" name="deleteFolderResponse">
</wsdl:output>
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="DmsServiceSoapBinding" type="tns:DmsService">
  <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="createDocument">
    <soap:operation soapAction="" style="document"/>
    <wsdl:input name="createDocument">
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output name="createDocumentResponse">
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="checkout">
    <soap:operation soapAction="" style="document"/>
    <wsdl:input name="checkout">
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output name="checkoutResponse">
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="createFolder">
    <soap:operation soapAction="" style="document"/>
    <wsdl:input name="createFolder">
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output name="createFolderResponse">
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="downloadDocumentInfo">
    <soap:operation soapAction="" style="document"/>
    <wsdl:input name="downloadDocumentInfo">
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output name="downloadDocumentInfoResponse">
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="checkin">
    <soap:operation soapAction="" style="document"/>

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<wsdl:input name="checkin">
  <soap:body use="literal"/>
</wsdl:input>
<wsdl:output name="checkinResponse">
  <soap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="downloadDocument">
  <soap:operation soapAction="" style="document"/>
  <wsdl:input name="downloadDocument">
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output name="downloadDocumentResponse">
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="search">
  <soap:operation soapAction="" style="document"/>
  <wsdl:input name="search">
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output name="searchResponse">
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="deleteDocument">
  <soap:operation soapAction="" style="document"/>
  <wsdl:input name="deleteDocument">
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output name="deleteDocumentResponse">
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="downloadFolderContent">
  <soap:operation soapAction="" style="document"/>
  <wsdl:input name="downloadFolderContent">
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output name="downloadFolderContentResponse">
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="deleteFolder">
  <soap:operation soapAction="" style="document"/>
  <wsdl:input name="deleteFolder">
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output name="deleteFolderResponse">
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="DmsService">
  <wsdl:port binding="tns:DmsServiceSoapBinding" name="DmsServiceImplPort">
    <soap:address location="http://localhost:8080/logicaldoc/services/Dms"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```