NewgenONE OmniDocs

REST Web Services

Developer Guide

Version: 12.0

Disclaimer

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Contents

Preface

This developer guide explains how to use OmniDocs REST web services. It also describes how to utilize these services in Postman and subsequently in third-party applications using client codes.

Revision history

Revision date	Description
November 2024	Initial publication.

Intended audience

This developer guide is intended for the developers from internal or external product implementation teams responsible for integrating OmniDocs REST web services with another product or platform. Readers must know Extensible Markup Language (XML) and JavaScript Object Notation (JSON) application programming interface (API) signature formats to comprehend API requests and responses. The reader must also know how to call APIs in Postman client or any other programming language such as Java, VB.net, and more. Administrative rights might be required to perform the integration operations.

Documentation feedback

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- Document name
- Version
- Chapter, topic, or section
- Feedback or suggestions

Enabling Arabic or another language

To enable Arabic or another language in REST web services, you must configure the following settings:

- If the connection is established by *UserName* and *UserPassword*, then the following settings are required:
    - Tag *<locale>Local_Country</locale>* is passed in REST web service XML. Example: *<locale>ar_SA</locale>*
- If the connection is established by *userDBId*, then the following settings are required:
    - Tag *<locale>Local_Country</locale>* is passed in *NGOConnectCabinet* API and is executed by the *executeAPI* REST web service.
    - The generated *userDBId* is used in the REST web service XML. Ensure that the *<locale>Local_Country</locale>* tag is passed correctly.

Arabic language metadata files are already shipping with REST web services, but for the other languages, you must set up the following files:

At the installed location of the server: *OmniDocsRestWS.war\WEB-INF\classes\JTSMessagesWebServices_(Locale)_(Country).properties*

Example: *OmniDocsRestWS.war\WEB-INF\classes\JTSMessagesWebServices_ar_SA.properties*

OmniDocs REST web services

The OmniDocs REST web services comprise the following APIs:

- addDocument — For adding documents
- getDocument — For downloading documents
- executeAPI — For executing APIs
- checkInDocument — For checking-in documents
- encryptData — For encrypting data
- getDocumentStream — For getting document stream
- addDocumentIS — For adding documents to SMS
- getDocumentIS — For getting documents from SMS

> ❗ The connection to OmniDocs cannot be made using SHA-256 or SHA-512 hashed passwords due to technical constraints. This limitation applies to all web services, except the "encryptData" web service.

addDocument

The *addDocument* API allows you to add a document to a folder. You can give the file as a multipart form data with XML or JSON request using the Post method.

The following are the API details:

- **Service URLs**:
  - **XML** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/addDocument*
  - **JSON** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/ addDocumentJSON*
- **Service method** – *addDocument*
- **Method type** – POST
- **Service method input variables** – Text: *NGOAddDocumentBDO* and File: *file*
- **Consumes** – *multipart/form-data*
- **Produces**:
  - **XML** – *application/xml*
  - **JSON** – *application/json*

> ⚠ If you associate the data class with the document, it is not mandatory to provide values for all data class fields. You can choose to pass the data class field index ID, index type, and index value according to your preferences.

Sample request in XML

```
<NGOAddDocumentBDO>
    <cabinetName>newgencabinet</cabinetName>
    <folderIndex>240</folderIndex>
    <documentName>Restweb postman</documentName>
    <userDBId></userDBId>
    <volumeId>1</volumeId>
    <author></author>
    <accessType>P</accessType>
    <createdByAppName>txt</createdByAppName>
    <documentPath></documentPath>
    <enableLog>Y</enableLog>
    <versionFlag></versionFlag>
    <textAlsoFlag></textAlsoFlag>
    <ownerType>U</ownerType>
    <ownerIndex></ownerIndex>
    <FTSDocumentIndex></FTSDocumentIndex>
    <FTSFlag></FTSFlag>
```

```
<ODMADocumentIndex></ODMADocumentIndex>
<textISIndex></textISIndex>
<validateDocumentImage></validateDocumentImage>
<versionComment></versionComment>
<nameLength></nameLength>
<creationDateTime></creationDateTime>
<duplicateName></duplicateName>
<thumbNailFlag>N</thumbNailFlag>
<imageData></imageData>
<userName>supervisor2</userName>
<userPassword>supervisor351</userPassword>
<comment>add comment</comment>
<authToken></authToken>
<authTokenType></authTokenType>
<locale>en_US</locale>
<revisedBy>12</revisedBy>
<oAuth>y</oAuth>
<appId>2b67b8a0-c784-4989-a474-8967861e4761</appId>
<accessToken>eyJhbGciOiJ</accessToken>
<sessionValid>mCD/77AFOX+q09Fv3qHzt</sessionValid>
<NGOAddDocDataDefCriterionBDO>
     <dataDefIndex>42</dataDefIndex>
     <dataDefName>TestDataClass</dataDefName>
     <NGOAddDocDataDefCriteriaDataBDO>
         <indexId>43</indexId>
         <indexType>I</indexType>
         <indexValue>123</indexValue>
     </NGOAddDocDataDefCriteriaDataBDO>
     <NGOAddDocDataDefCriteriaDataBDO>
         <indexId>44</indexId>
         <indexType>S</indexType>
         <indexValue>hello newgen</indexValue>
     </NGOAddDocDataDefCriteriaDataBDO>
     <NGOAddDocDataDefCriteriaDataBDO>
         <indexId>45</indexId>
         <indexType>S</indexType>
         <indexValue>24</indexValue>
     </NGOAddDocDataDefCriteriaDataBDO>
     <NGOAddDocDataDefCriteriaDataBDO>
         <indexId>46</indexId>
         <indexType>S</indexType>
         <indexValue>24</indexValue>
     </NGOAddDocDataDefCriteriaDataBDO>
</NGOAddDocDataDefCriterionBDO>
<NGOAddDocKeywordsCriterionBDO>
     <keyword>Key1</keyword>
     <keyword>key2</keyword>
</NGOAddDocKeywordsCriterionBDO>
<GlobalIndexes>
     <Field>
         <indexId>65</indexId>
         <indexType>I</indexType>
         <indexValue>23</indexValue>
     </Field>
     <Field>
         <indexId>54</indexId>
         <indexType>D</indexType>
```

```
        <indexValue>23/01/2022</indexValue>
      </Field>
    </GlobalIndexes>
</NGOAddDocumentBDO>
```

Sample request in JSON

```json
{
  "NGOAddDocumentBDO": {
    "cabinetName": "newgencabinet",
    "folderIndex": "60",
    "documentName": "Restweb postman",
    "documentPath": "D:/downloadLocation/invoice.png",
    "userDBId": "",
    "volumeId": "3",
    "author": "",
    "accessType": "S",
    "createdByAppName": "pdf",
    "enableLog": "Y",
    "versionFlag": "",
    "textAlsoFlag": "",
    "ownerType": "U",
    "ownerIndex": "",
    "FTSDocumentIndex": "",
    "FTSFlag": "",
    "ODMADocumentIndex": "",
    "textISIndex": "",
    "validateDocumentImage": "",
    "versionComment": "",
    "nameLength": "",
    "creationDateTime": "",
    "duplicateName": "",
    "thumbNailFlag": "N",
    "imageData": "",
    "userName": "supervisor2",
    "userPassword": "supervisor351",
    "comment": "add comment",
    "authToken": "",
    "authTokenType": "",
    "locale": "en_US",
    "revisedBy": "12",
    "oAuth": "N",
    "appId": "2b67b8a0-c784-4989-a474-8967861e4761",
    "accessToken": "eyJhbGciOiJIUz",
    "sessionValid": "SzXrhI3adv4LqqbzXtZelYYs+I",
    "NGOAddDocDataDefCriterionBDO": {
      "dataDefIndex": 42,
      "dataDefName": "TestDataClass",
      "NGOAddDocDataDefCriteriaDataBDO": [
        {
          "indexId": 43,
          "indexType": "I",
          "indexValue": 123
        },
```

```
            {
                "indexId": 44,
                "indexType": "S",
                "indexValue": "hello newgen"
            }
        ]
    },
    "NGOAddDocKeywordsCriterionBDO": {
        "keyword": [
            "Key1",
            "key2"
        ]
    },
    "GlobalIndexes": {
        "Field": [
            {
                "indexId": 65,
                "indexType": "I",
                "indexValue": 23
            },
            {
                "indexId": 54,
                "indexType": "D",
                "indexValue": "23/01/2022"
            }
        ]
    }
  }
}
```

imageRequest parameter description

The following table lists the request parameters for the *addDocument* API:

Parameter	Data type	Mandatory	Parameter description
cabinetName	String	Yes	The cabinet name for connecting to the database. • Valid values – Provide a valid cabinet name. • Default value – Not applicable • Maximum length – 225
userDBId	Integer	No	User database ID, which is returned in the *NGOConnect Cabinet* call. To use the encrypted *userDBId* in a web service request, refer to Appendix B.

Parameter	Data type	Mandatory	Parameter description
			If *userName* and *userPassword* are absent in the REST web service request, *userDBId* must be provided. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Integer value
createdBy AppName	String	Yes	Extension of the document. For example, JPG, GIF, and so on. • Valid values – Specify the name of the application that created the document. • Default value – Not applicable • Maximum length – 30
dataDefName	String	No	Name of data definition. It is required when you need to associate the data class with the document. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 64
dataDefIndex	Integer	Yes	Index of the data class associated with the document. In case you are associating the data class with the document, then you must provide the *IndexId* tag value. • Valid values – Enter the index of the data class associated with the document. • Default value – Not applicable • Maximum length – Integer value
indexId	Integer	Yes	Index of the *Field* associated with the data class or global index. It is required in case you need to associate the data class or global index with the document. • Valid values – Enter the index of the *Field* associated with the data class or global index. • Default value – Not applicable • Maximum length – Integer value
indexType	Char	Yes	The type of data that the field stores in the *Field*.

Parameter	Data type	Mandatory	Parameter description
			It is required in case you need to associate the data class or global index with the document. • Valid values – Enter the data type of the data class field. • Default value – Not applicable • Maximum length – 1

indexValue	String	Yes	The actual data that is to be stored in the field. It is required in case you need to associate the data class or global index with the document.
			
			❗ If the data field type is Date, then you need to pass the date format as per the database. By default, the yyyy-MM-dd format is valid.
			
			• Valid values – Enter the actual data that must be stored in the field.
			• Default value – Not applicable
			• Maximum length – Based on index type such as:
			  ◦ Date
			  ◦ Text
			  ◦ String
			  ◦ Integer and more

folderIndex	Integer	Yes	Index of a folder in which the document is to be uploaded. • Valid values – Enter a valid index of the folder. • Default value – Not applicable • Maximum length – Integer value
userName	String	Yes	Name of the login user. In case *userDBId* is not being provided in the REST web service request, then the *userName* and *userPassword* must be provided. • Valid values – Enter a valid user name. • Default value – Not applicable • Maximum length – 225
userPassword	String	Yes	The password of the login user.

Parameter	Data type	Mandatory	Parameter description
			In case *userDBId* is not being provided in the REST web service request, then a *userName* and *userPassword* must be provided. • Valid values – Enter the valid password of the user. • Default value – Not applicable • Maximum length – 225
revisedBy	Integer	No	The user index of the user who has revised the document. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Integer value
volumeId	Integer	Yes	Volume Index of the Folder. • Valid values – Enter a valid volume index of the folder. • Default value – Not applicable • Maximum length – Integer value
documentName	String	Yes	Name of the document. • Valid values – Enter a valid document name. • Default value – Not applicable • Maximum length – 225
versionFlag	Char	No	Specifies whether Auto Versioning of a document is allowed. • Valid values – *Y* to enable versioning and *N* to disable versioning • Default value – *Y* • Maximum length – 1
accessType	Char	No	Specifies the scope of accessing the document. • Valid values – *S* for shared, *P* for private, and *I* for inherited • Default value – *I* • Maximum length – 1
comment	String	No	Comments added by you on the document. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 1000

Parameter	Data type	Mandatory	Parameter description
locale	String	No	Locale of the user's machine. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 6
keyword	Not applicable	No	Specifies the keyword that is to be added to the document. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 255
textAlsoFlag	Char	No	Specifies whether the FTS data is to be set. • Valid values – *Y* to enable FTS and *N* to disable FTS • Default value – *N* • Maximum length – 1
thumbNailFlag	Char	No	Specifies whether Thumbnail related information is present. • Valid values – *Y* (contains data related to Thumbnail View) and *N* (does not contain the data related to Thumbnail View). In the case of *Y*, the *ImageData* tag value must be sent. • Default value – *N* • Maximum length – 1
imageData	String	No	Document data in binary format. It is applicable if the *thumbNailFlag* value is Y. • Valid values – Not applicable • Default value – Not applicable • Maximum length – BLOB (DataType)
ownerType	Char	No	Specifies the owner type. • Valid values – *U* (User), *G* (Group), and *R* (Role) • Default value – Not applicable • Maximum length – 1
authToken	String	No	Used for passing Authentication or a Secure Token. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable

Parameter	Data type	Mandatory	Parameter description
authTokenType	Integer	No	Specifies the type of Authentication or Secure Token. • Valid value – *1* for JWT Token • Default value – Not applicable • Maximum length – 1
author	String	No	Name of the author of the document. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 64
validateDocument Image	Char	No	It is used to validate the image. • Valid values – *Y* (Validate) and *N* (Do not validate) • Default value – *Y* • Maximum length – 1
versionComment	String	No	A brief description of the document version. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 255

creationDateTime	Date Time	No	Creation date and time of the document.
			• Valid values – Not applicable
			• Default value – Not applicable
			• Maximum length – Timestamp based on database like:
			   ◦ PostgreSQL – Timestamp
			   ◦ Oracle – Timestamp
			   ◦ MSSQL – Timestamp

duplicateName	Char	No	This parameter determines whether a document with the same name is permitted in a folder. • Valid values – *Y* (Duplicate name allowed), *N* (Duplicate name not allowed), *A* (Timestamp appended if the name is already present), and *V* (Create a new version of the document if the name is already present) • Default value – *Y* • Maximum length – 1

Parameter	Data type	Mandatory	Parameter description
nameLength	Integer	No	JTS supports a maximum document name length of 255 characters. However, if the user prefers a shorter maximum length, they can specify it using this tag. If the Document Name exceeds this specified length, it will be truncated accordingly. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 3
documentPath	String	No	Path of network drive where documents exist for uploading in OmniDocs. • Valid values – Not applicable • Default value – Not applicable ⓘ This *documentPath* parameter is mandatory to provide in case the document input stream is not provided in the file parameter of the OmniDocs REST webservices. • • Maximum length – Not applicable
oAuth	Char	No	Allows or restricts OmniDocs to use webservices through the *OAuth* protocol. • Valid Value – *Y* (Allows OmniDocs to use webservices through the *OAuth* protocol.), *N* (Restrict OmniDocs to use webservices through the *OAuth* protocol.) • Default Value – Not Applicable • Maximum length – 1
appId	String	No	Defines the app-id to consume webservices and perform required operations. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
accessToken	String	No	Specifies the *accessToken* to get access in OmniDocs. In case *oAuth* is enabled on the OmniDocs cabinet, the *accessToken* value returns in the *ConnectCabinet* call response. • Valid values – Not applicable

Parameter	Data type	Mandatory	Parameter description
			• Default value – Not applicable • Maximum length – Not applicable
sessionValid	String	No	Specifies the OmniDocs session expiry time. In case *oAuth* is enabled on the OmniDocs cabinet, the *sessionValid* value returns in the *ConnectCabinet* call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable

Sample response in XML

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<NGOAddDocumentResponseBDO>
    <loginUserRights>11111111111</loginUserRights>
    <statusCode>0</statusCode>
    <NGOGetDocListDocDataBDO>
        <accessedDateTime>2018-04-24 18:01:55.4</accessedDateTime>
        <author>Supervisor2</author>
        <checkOutBy>NULL</checkOutBy>
        <checkOutStatus>N</checkOutStatus>
        <comment>add comment</comment>
        <createdByApp>0</createdByApp>
        <createdByAppName>txt</createdByAppName>
        <createdDateTime>2018-04-24 18:01:55.4</createdDateTime>
        <docOrderNo>43</docOrderNo>
        <documentIndex>204</documentIndex>
        <documentLock>N</documentLock>
        <documentName>Restwebpostman</documentName>
        <documentSize>300</documentSize>
        <documentType>N</documentType>
        <documentVersionNo>1.0</documentVersionNo>
        <enableLog>Y</enableLog>
        <expiryDateTime>2118-04-24 18:01:55.4</expiryDateTime>
        <filedByUser></filedByUser>
        <filedDateTime></filedDateTime>
        <finalizedBy>NULL</finalizedBy>
        <ftsDocumentIndex>0</ftsDocumentIndex>
        <isIndex>223#1#</isIndex>
        <location></location>
        <lockByUser>NULL</lockByUser>
        <loginUserRights>11111111111</loginUserRights>
        <noOfPages>1</noOfPages>
        <owner>Supervisor2</owner>
        <ownerIndex>2</ownerIndex>
        <parentFolderIndex>30</parentFolderIndex>
        <referenceFlag></referenceFlag>
        <revisedDateTime>2018-04-24 18:01:55.4</revisedDateTime>
        <textISIndex>0</textISIndex>
```

```
        <useFulInfo></useFulInfo>
        <versionFlag>N</versionFlag>
        <NGODataDefinitionBDO>
            <comment></comment>
            <dataDefIndex>8</dataDefIndex>
            <dataDefName>ACC_Audit5</dataDefName>
            <enableLogFlag></enableLogFlag>
            <groupId></groupId>
            <loginUserRights></loginUserRights>
            <type></type>
            <NGODataDefFieldBDO>
                <indexAttribute>5</indexAttribute>
                <indexFlag></indexFlag>
                <indexId>25</indexId>
                <indexLength>50</indexLength>
                <indexName>Name</indexName>
                <indexType>S</indexType>
                <indexValue></indexValue>
                <usefulInfoFlag></usefulInfoFlag>
                <usefulInfoSize></usefulInfoSize>
            </NGODataDefFieldBDO>
            <NGODataDefFieldBDO>
                <indexAttribute>5</indexAttribute>
                <indexFlag></indexFlag>
                <indexId>26</indexId>
                <indexLength>50</indexLength>
                <indexName>Account Type</indexName>
                <indexType>S</indexType>
                <indexValue></indexValue>
                <usefulInfoFlag></usefulInfoFlag>
                <usefulInfoSize></usefulInfoSize>
            </NGODataDefFieldBDO>
            <NGODataDefFieldBDO>
                <indexAttribute>4</indexAttribute>
                <indexFlag></indexFlag>
                <indexId>27</indexId>
                <indexLength>4</indexLength>
                <indexName>Salary</indexName>
                <indexType>F</indexType>
                <indexValue></indexValue>
                <usefulInfoFlag></usefulInfoFlag>
                <usefulInfoSize></usefulInfoSize>
            </NGODataDefFieldBDO>
        </NGODataDefinitionBDO>
    </NGOGetDocListDocDataBDO>
</NGOAddDocumentResponseBDO>
```

Sample response in JSON

```json
{
  "NGOAddDocumentResponseBDO": {
    "message": "Document added successfully.",
    "status": "0",
```

```
"NGOGetDocListDocDataBDO": {
  "accessDateTime": "2020-11-25 17:18:56.433",
  "author": "Supervisor2",
  "checkOutBy": "NULL",
  "checkoutStatus": "N",
  "comment": "checking comment",
  "createdByApp": "0",
  "createdByAppName": "pdf",
  "createdDateTime": "2020-11-25 17:18:56.433",
  "docOrderNo": "88",
  "documentIndex": "2302",
  "documentLock": "N",
  "documentName": "TestCase_5",
  "documentSize": "412725",
  "documentType": "I",
  "documentVersionNo": "1.0",
  "enableLog": "Y",
  "expiryDateTime": "2120-11-24 17:18:56.433",
  "filedByUser": "",
  "filedDateTime": "",
  "finalizedBy": "NULL",
  "fTSDocumentIndex": "0",
  "iSIndex": "443#3#",
  "location": "",
  "lockByUser": "NULL",
  "loginUserRights": "111111111111",
  "noOfPages": "1",
  "owner": "Supervisor2",
  "ownerIndex": "2",
  "parentFolderIndex": "60",
  "referenceFlag": "",
  "revisedDateTime": "2020-11-25 17:18:56.433",
  "textISIndex": "0",
  "useFulInfo": "null",
  "versionFlag": "N",
  "NGODataDefinitionBDO": {
    "comment": "",
    "dataDefIndex": "4",
    "dataDefName": "Document QC",
    "enableLogFlag": "",
    "groupId": "",
    "loginUserRights": "",
    "type": "",
    "NGODataDefFieldBDO": [
      {
        "indexAttribute": "0",
        "indexFlag": "",
        "indexId": "23",
        "indexLength": "255",
        "indexName": "Document ID",
        "indexType": "S",
        "indexValue": "",
        "usefulInfoFlag": "",
        "usefulInfoSize": ""
      },
      {
        "indexAttribute": "0",
```

```
          "indexFlag": "",
          "indexId": "24",
          "indexLength": "255",
          "indexName": "Department",
          "indexType": "S",
          "indexValue": "",
          "usefulInfoFlag": "",
          "usefulInfoSize": ""
        }
      ]
    }
  }
 }
}
```

Response parameter description

The following table lists the response parameters of the *addDocument* API:

Parameter	Description
loginUserRights	Rights of the logged-in user on the document. Maximum length – 225
statusCode	Status code of the document to be added. Maximum length – Integer value
accessedDateTime	Accessed Date and Time of the document. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
author	Name of the Author of the document. Maximum length – Integer value
checkOutBy	Index of the user who has checked-out this document. Maximum length – 255
checkOutStatus	Indicates whether the document has been checked out or not. • N – No • Y – Yes • Maximum length – 1
comment	Comments added by you on the document. Maximum length – 1000

Parameter	Description
createdByApp	Not used. Maximum length – 255
createdByAppName	Extension of the document. For example, JPG, GIF, and so on. Maximum length – 32
createdDateTime	Creation Date and Time of the document. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
docOrderNo	Order of the document in the Folder where it is added. Maximum length – Integer value
docStatus	Specifies the status of the document. • R – Read • A – Unread • Maximum length – 1
documentIndex	Index of the document that is to be added. Maximum length – Integer value
documentLock	A flag that specifies whether any user has locked the object. • Y – Object is locked. • N – Object is not locked. • Maximum length – 1
documentName	Name of the added document. Maximum length – 255
documentSize	Size of the document in bytes. Maximum length – Integer value
documentType	Specifies the type of the document. • I – Image • N – Non-image • A – Reserved • Maximum length – 1
documentVersionNo	Specifies the current version of the document. Maximum length – 7.2, here 7 is the integer and 2 decimal values

Parameter	Description
enableLog	A flag that specifies whether to generate a log for the added document. • Y – Log is generated. • N – Log not generated. • Maximum length – 1
expiryDateTime	Date and Time when the document will expire. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
filedByUser	The name of the user who has filed the document. Maximum length – Integer value
filedDateTime	The date and time when the document was filed to its parent folder. Maximum length – Integer value
finalizedBy	Index of the user who has finalized the document. Maximum length – Integer value
finalizedDateTime	Date and Time when the document was finalized. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
finalizedFlag	A flag that specifies whether the document is finalized. • Y – Document is finalized. • N – Document is not finalized. • Maximum length – 1
ftsDocumentIndex	Not used. Maximum length – Integer value
linkDocFlag	Indicates linking with other documents or not. Maximum length – 1
noOfPages	Specifies the number of pages in the document. Maximum length – Integer value
location	Location of the document. Maximum length – 128
lockByUser	Index of the user who has locked the document. Maximum length – Integer value

Parameter	Description
odmaDocumentIndex	Not used. Maximum length – Integer value
originalFolderIndex	Original folder index of the document. Maximum length – Integer value
originalFolderLocation	Original folder location of the document. Maximum length – 128
owner	Name of the Owner of the document. Maximum length – Integer value
ownerIndex	Index of the Owner of the document. Maximum length – Integer value
parentFolderIndex	Specifies the Index of the Parent Folder of the document. Maximum length – Integer value
referenceFlag	Shows the reference flag of the document. Maximum length – 1
revisedDateTime	Revision Date and Time of the document. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
textISIndex	Not used. Maximum length – Integer value
thumbNailFlag	Specifies whether Thumbnail related information is present. • Y – Contains data related to Thumbnail View. • N – Does not contain the data related to Thumbnail View. • Maximum length – 1
versionFlag	Specifies whether Versioning of the document is allowed. • Y – Versioning is allowed. • N – Versioning is not allowed. • Maximum length – 1

Error code description

The following table describes the error codes:

Code	Message	Description
-50074	Invalid parameters.	The value for some input parameters is not correct or is invalid.
-50016	Group not found.	The group in which the document is to be added does not exist.
-50058	Specified User does not exist.	The owner index specified in the input does not exist in the system.
-50017	Folder not found.	The folder in which the document must be added does not exist.
-50133	Folder has been deleted.	The folder in which the document must be added has been deleted.
-50104	Invalid Folder type.	The folder in which you want to add a document is invalid. For example, Trash. You cannot add a folder to the Trash Folder.
-50021	Folder is in use.	The folder where the document must be added is currently in use.
-50019	Properties of the Folder have been finalized.	Folder Properties has been finalized. Documents cannot be added to a folder that has been finalized.
-50028	Data Class not found.	Data Class which was to be associated with the document does not exist
-50018	Insufficient rights for the current operation.	You do not have the right to add documents to the current folder. You must have at least the write permission on the folder.
-50124	Object with this name already exists.	Document with the name sent in the call already exists.
-50076	Invalid object access type.	The access type of the folder in which the document is to be added is improper. This error arises in the process of rights checking on the folder.
-50023	Document not found.	The document to which the keywords are to be added does not exist.
-50132	Document has been deleted.	The document to which keywords are to be added has been deleted or moved to Trash.
-50086	Document has expired.	The document to which keywords are to be added has expired.

Code	Message	Description
-50071	Document has been checked out.	The document to which keywords are to be added is checked out.
-50027	Properties of the Document have been finalized.	The properties of the document to which keywords are to be added are finalized.
-4001	Please enter valid value of authTokenType.	The type of authTokenType is invalid.
-4002	AuthTokenType cannot remain empty.	AuthTokenType needs to be mentioned in case the authToken tag is not empty.
-4003	AuthTokenParser cannot remain empty.	The *AuthTokenParser* property is not mentioned in the tag validation file of web services.
-4004	Invalid Auth Token.	The authentication token is invalid.
-4006	TokenParser not implemented.	The *TokenParser* class has not been implemented.

getDocument

The *getDocument* API downloads the document having the input docIndex.

The following are the API details:

- **Service URL**:
    - **XML** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/getDocument*
    - **JSON** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/ getDocumentJSON*
- **Services method** – *getDocument*
- **Method type** – POST
- **Service method input variables**:
    - **XML** – *Application/Xml: NGOGetDocumentBDO*
    - **JSON** – *Application/JSON: NGOGetDocumentBDO*
- **Consumes**:
    - **XML** – *application/xml*
    - **JSON** – *application/json*
- **Produces**:
    - **XML** – *application/xml*
    - **JSON** – *application/json*

Sample request in XML

```
<NGOGetDocumentBDO>
    <cabinetName>newgencabinet</cabinetName>
    <docIndex>5012</docIndex>
    <versionNo>1.0</versionNo>
    <userName>alexjones</userName>
    <userPassword>password</userPassword>
    <downloadLocation>D:/ABCD</downloadLocation>
    <userDBId></userDBId>
    <authToken></authToken>
    <authTokenType></authTokenType>
    <locale>en_US</locale>
    <oAuth>y</oAuth>
    <appId>2b67b8a0-c784-4989-a474-8967861e4761</appId>
    <accessToken>eyJhbGciOiJ</accessToken>
    <sessionValid>mCD/77AFOX+q09Fv3qHzt</sessionValid>
</NGOGetDocumentBDO>
```

Sample request in JSON

```
{
    "NGOGetDocumentBDO": {
        "cabinetName": "newgencabinet",
        "docIndex": "5012",
        "versionNo": "1.0",
        "userName": "supervisor",
        "userPassword": "system123#",
        "userDBId": "",
        "downloadLocation": "D:/ABCD",
        "authToken": "",
        "authTokenType": "",
        "locale": "en_US",
        "oAuth": "N",
        "appId": "2b67b8a0-c784-4989-a474-8967861e4761",
        "accessToken": "eyJhbGciOiJIUz",
        "sessionValid": "SzXrhI3adv4LqqbzXtZelYYs+I"
    }
}
```

Request parameter description

The following table lists the request parameters of the *getDocument* API:

Parameter	Data type	Mandatory	Parameter description
cabinetName	String	Yes	The cabinet name for connecting to the database. • Valid values – Provide a valid cabinet name. • Default value – Not applicable • Maximum length – 255
docIndex	Integer	Yes	Index of the document. • Valid values – Specify a valid document index. • Default value – Not applicable • Maximum length – Integer value
versionNo	Float	No	The version of the document. • Valid values – X.Y, where X>=1 and Y>=0 • Default value – Current version • Maximum length – 7

Parameter	Data type	Mandatory	Parameter description
userName	String	Yes	Name of the login user. In case *userDBId* is not being provided in the REST web service request, then the *userName* and *userPassword* must be provided. • Valid values – Enter a valid user name. • Default value – Not applicable • Maximum length – 255
userPassword	String	Yes	The password of the login user. In case *userDBId* is not being provided in the REST web service request, then the *userName* and *userPassword* must be provided. • Valid values – Enter the valid password of the user. • Default value – Not applicable • Maximum length – 255
downloadLocation	String	No	It is the server location where the document gets downloaded. The specified download location must exist on the server and be accessible over the network. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
userDBId	Integer	Yes	User database ID, which is returned in the *NGOConnect* cabinet call. To utilize the encrypted *userDBId* in a web service request, refer to Appendix B. If userName and userPassword are absent in the REST web service request, *userDBId* must be provided. • Valid values – Provide the valid user database ID. • Default value – Not applicable • Maximum length – Integer value
locale	String	No	Local of the user. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 6

Parameter	Data type	Mandatory	Parameter description
authToken	String	No	Used for passing Authentication or a secure token. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
authTokenType	Integer	No	Specifies the type of Authentication or Secure Token. • Valid value – 1 for JWT Token • Default value – Not applicable • Maximum length – 1
oAuth	Char	No	Allows or restrict OmniDocs to use webservices through the *OAuth* protocol. • Valid Value – *Y* (Allows OmniDocs to use webservices through the *OAuth* protocol.), *N* (Restrict OmniDocs to use webservices through the *OAuth* protocol.) • Default Value – Not Applicable • Maximum length – 1
appId	String	No	Defines the app-id to consume webservices and perform required operations. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
accessToken	String	No	Specifies the *accessToken* to get access in OmniDocs. In case *oAuth* is enabled on the OmniDocs cabinet, the *accessToken* value returns in the *ConnectCabinet* call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
sessionValid	String	No	Specifies the OmniDocs session expiry time. In case *oAuth* is enabled on the OmniDocs cabinet, the *sessionValid* value returns in the *ConnectCabinet* call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable

Sample response in XML

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<NGOGetDocumentBDOResponse>
  <createdByAppName>tif</createdByAppName>
  <documentName>NG-2</documentName>
  <documentSize>20153728</documentSize>
  <documentType>I</documentType>
  <message>File successfully downloaded at server location: D:\ABCD\NG-2.tif</message>
  <statusCode>0</statusCode>
</NGOGetDocumentBDOResponse>
```

Sample response in JSON

```json
{
  "NGOGetDocumentBDOResponse": {
    "createdByAppName": "tif",
    "documentName": "NG-2",
    "documentSize": "20153728",
    "documentType": "I",
    "message": "File successfully downloaded at server location: D:\\ABCD\\NG-2.tif",
    "statusCode": "0"
  }
}
```

Response parameter description

The following table lists the response parameters of the *getDocument* API:

Parameter	Description
message	It shows the successful message. Maximum length – 255
statusCode	It shows Status code 0. Maximum length – Integer value
docContent	It shows a document in the base64 string. Maximum length – Length varied based on document.
createdByAppName	Extension of the document. For example, JPG, GIF, and so on. Maximum length – 32

Parameter	Description
documentName	Name of the downloaded document. Maximum length – 255
documentSized	Size of the document in bytes. Maximum length – Integer value
documentType	Specifies the document type. • I – Image • N – Non-image • A – Reserved • Maximum length – 1

Error codes and description

The following table describes the error codes:

Code	Message	Description
-4001	Please enter valid value of authTokenType.	The type of authTokenType is invalid.
-4002	AuthTokenType cannot remain empty.	The authTokenType needs to be mentioned in case the authToken tag is not empty.
-4003	AuthTokenParser cannot remian empty.	The authTokenParser property is not mentioned in the tag validation file of web services.
-4004	Invalid Auth Token.	The authentication token is invalid.
-4006	TokenParser not implemented.	The TokenParser class has not been implemented.

executeAPI

The *executeAPI* API allows you to execute any OmniDocs transactional API. You must pass the input XML or JSON of the transactional API that generates the corresponding output XML or JSON.

The following are the API details:

- **Service URL**:
  - **XML** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/executeAPI*
  - **JSON** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/ executeAPIJSON*
- **Service method** – *executeAPI*
- **Method type** – POST
- **Service method input variables**:
  - XML – Application/Xml: NGOExecuteAPIBDO
  - JSON – Application/JSON: NGOExecuteAPIBDO
- **Consumes**:
  - **XML** – application/xml
  - **JSON** – application/json
- **Produces**:
  - **XML** – application/xml
  - **JSON** – application/json

ℹ️ For security reasons, you must use the Execute API with Base64 encoding.

Sample request in XML

Request 1

```
<NGOExecuteAPIBDO>
  <inputXML>
    <![CDATA[
      <NGOConnectCabinet_Input>
        <Option>NGOConnectCabinet</Option>
        <UserExist>N</UserExist>
        <cabinetName>newgencabinet</cabinetName>
        <UserName>supervisor2</UserName>
```

```
            <UserPassword>supervisor351</UserPassword>
            <locale>en_US</locale>
        </NGOConnectCabinet_Input>
    ]]>
  </inputXML>
  <base64Encoded>N</base64Encoded>
  <locale>en_US</locale>
  <authToken></authToken>
  <authTokenType></authTokenType>
</NGOExecuteAPIBDO>
```

Request 2

```
<NGOExecuteAPIBDO>
    <inputXML>
PE5HT0Nvbm5lY3RDYWJpbmV0X0lucHV0PjxPcHRpb24+Tk9PQ29ubmVjdENhYmluZXQ8L09wdGlvbj48VX
NlckV4aXN0Pk48L1VzZXXJFeGlzdD48Q2FiaW5ldE5hbWU+bWFoaW5kcmEyM2phbjwvQ2FiaW5ldE5hbWU+
PFVzZXXJOYW1lPnN1cGVydmlzb3IyPC9Vc2VyTmFtZT48VXNlclBhc3N3b3JkPnN1cGVydmlzb3IzNTE8L1
VzZXXJQYXNzd29yZD48L05HT0Nvbm5lY3RDYWJpbmV0X0lucHV0Pg==
    </inputXML>
    <base64Encoded>Y</base64Encoded>
    <authToken></authToken>
    <authTokenType></authTokenType>
</NGOExecuteAPIBDO>
```

Sample request in JSON

Request 1

```
{
  "NGOExecuteAPIBDO": {
    "inputData": {
      "NGOConnectCabinet_Input": {
        "Option": "NGOConnectCabinet",
        "UserExist": "N",
        "cabinetName": "newgencabinet",
        "UserName": "supervisor",
        "UserPassword": "supervisor351",
        "locale": "en_US"
      }
    },
    "base64Encoded": "N",
    "locale": "en_US",
    "authToken": "",
    "authTokenType": ""
  }
}
```

Request 2

```
{
  "NGOExecuteAPIBDO": {
    "inputData":
"ew0KICAgICAgICAgICAgIk5HT0Nvbm5lY3RDYWJpbmV0X0lucHV0Ijogew0KICAgICAgICAgICAgICAg
ICJPcHRpb24iOiAiTkdPQ29ubmVjdENhYmluZXQiLA0KICAgICAgICAgICAgICAgICAgICJVc2VyRXhpc3QiOi
AiTiIsDQogICAgICAgICAgICAgICAgICAgIkNhYmluZXROYW1lIjogInNxbGNhYmluZXQxIiwNCiAgICAgICAg
ICAgICAgICAiVXNlck5hbWUiOiAic3VwZXJ2aXNvciIsDQogICAgICAgICAgICAgICAgIlVzZXJQYXNzd2
9yZCI6ICJzdXBlcnZpc29yMzUxIiwNCiAgICAgICAgICAgICAgICAibG9jYWxlIjogIiINCiAgICAgICAg
ICAgIH0NCiAgICAgICAgfQ==",
    "base64Encoded": "Y",
    "locale": "en_US",
    "authToken": "",
    "authTokenType": ""
  }
}
```

Request parameter description

Parameter	Data type	Mandatory	Parameter description
inputXML	String	Yes	It applies to XML. Input XML of the OmniDocs transactional API. • Valid values – Input XML of the OmniDocs transactional API. • Default value – Not applicable • Maximum length – Not applicable
inputData	String	Yes	It applies to JSON. Input JSON of the OmniDocs transactional API. • Valid values – Input JSON of the OmniDocs transactional API. • Default value – Not applicable • Maximum length – Not applicable
locale	String	No	Locale of the user. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 5
base64Encoded	Char	No	Base64 encoded flag for input XML. • Valid values – *Y* for yes and *N* for no • Default value – *N* • Maximum length – 1

Parameter	Data type	Mandatory	Parameter description
authToken	String	No	Used for passing Authentication or a secure token. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
authTokenType	Integer	No	Specifies the type of authentication or secure token. • Valid value – *1* for JWT Token • Default value – Not applicable • Maximum length – 1

Sample response in XML

Response 1

```xml
<?xml version="1.0" ?>
<NGOConnectCabinet_Output>
  <Option>NGOConnectCabinet</Option>
  <Folders>
    <Folder>
      <FolderIndex>0</FolderIndex>
      <ParentFolderIndex>-1</ParentFolderIndex>
      <FolderName>od91mssqllatest</FolderName>
      <OwnerIndex>1</OwnerIndex>
      <CreationDateTime>2018-03-13 11:32:35.063</CreationDateTime>
      <RevisedDateTime>2018-03-13 11:32:35.063</RevisedDateTime>
      <AccessDateTime>2018-04-22 17:57:02.123</AccessDateTime>
      <DataDefIndex>0</DataDefIndex>
      <AccessType>S</AccessType>
      <ImageVolumeIndex>1</ImageVolumeIndex>
      <FolderType>G</FolderType>
      <FolderLock>N</FolderLock>
      <Location>R</Location>
      <DeletedDateTime>2018-03-13 11:32:35.063</DeletedDateTime>
      <VersionFlag>N</VersionFlag>
      <ExpiryDateTime>2118-03-13 11:32:35.063</ExpiryDateTime>
      <Comment></Comment>
      <ACL>G1#010000011,</ACL>
      <FinalizedFlag>N</FinalizedFlag>
      <FinalizedDateTime>2018-03-13 11:32:35.063</FinalizedDateTime>
      <ACLMoreFlag>N</ACLMoreFlag>
      <LoginUserRights>1111111111</LoginUserRights>
      <Owner>Supervisor</Owner>
      <NoOfDocuments>0</NoOfDocuments>
      <NoOfSubFolders>1</NoOfSubFolders>
    </Folder>
  </Folders>
  <Cabinet>
```

```
        <cabinetName>newgencabinet</cabinetName>
        <CabinetType>B</CabinetType>
        <CreationDateTime>2018-03-13 11:32:35.063</CreationDateTime>
        <VersionFlag>N</VersionFlag>
        <SecurityLevel>2</SecurityLevel>
        <FTSDatabasePath>od91mssqllatest#2018-03-13 11:32:36</FTSDatabasePath>
        <CabinetLockFlag>N</CabinetLockFlag>
        <ImageVolumeIndex>1</ImageVolumeIndex>
        <LoginUserIndex>2</LoginUserIndex>
        <UserPasswordExpire>N</UserPasswordExpire>
        <LastLoginTime>2018-04-24 11:58:20.083</LastLoginTime>
        <IsMakerCheckerEnabled>N</IsMakerCheckerEnabled>
        <IsAdmin>Y</IsAdmin>
        <EnableDDTFTS>N</EnableDDTFTS>
        <BuildVersion>9.1.00</BuildVersion>
        <UserName>Supervisor2</UserName>
        <UserInbox>10</UserInbox>
        <UserSentItem>11</UserSentItem>
        <UserTrash>12</UserTrash>
        <PersonalName>Supervisor2</PersonalName>
        <Account>1</Account>
        <ThemeColor>3399cc</ThemeColor>
        <PreferredFolderIndex>0</PreferredFolderIndex>
        <EnableDataSecurity>N</EnableDataSecurity>
        <Privileges>1111111111111111</Privileges>
    </Cabinet>
    <Services></Services>
    <userDBId>1063167404</userDBId>
    <UserType>U</UserType>
    <Status>0</Status>
    <LeftLoginAttempts>5</LeftLoginAttempts>
</NGOConnectCabinet_Output>
```

Response 2

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<NGOExecuteAPIResponseBDO>
    <base64Encoded>Y</base64Encoded>
    <outputXML>
```
```
 PD94bWwgdmVyc2lvbj0iMS4wIIj8+CjxOR09Db25uZWN0Q2FiaW5ldF9PdXRwdXQ+CjxPcHRpb24+Tkd
PQ29ubmVjdENhYmluZXQ8L09wdGlvbj4KPFN0YXR1cz4wPC9TdGF0dXM+PExlZnRMb2dpbkF0dGVtcHR
zPjU8L0xlZnRMb2dpbkF0dGVtcHRzPjxVc2VyREJJZD4tOTY2NjQ2MDAxPC9Vc2VyREJJZD48Rm9sZGV
ycz4KPEZvbGRlcj4KPEZvbGRlckluZGV4PjA8L0ZvbGRlckluZGV4PjxQYXJlbnRGb2xkZXJJbmRleD4
tMTwvUGFyZW50Rm9sZGVySW5kZXg+PEZvbGRlck5hbWU+bWFoaW5kcmEyM2phbjwvRm9sZGVyTmFtZT4
8T3duZXJJbmRleD4xPC9Pd25lckluZGV4PjxDcmVhdGlvbkRhdGVUaW1lPjIwMTktMDEtMjIgMTY6NTA
6MjQ8L0NyZWF0aW9uRGF0ZVRpbWU+PFJldmlzZWREYXRlVGltZT4yMDE5LTAxLTIyIDE2OjUwOjI0PC9
SZXZpc2VkRGF0ZVRpbWU+PEFjY2Vzc0RhdGVUaW1lPjIwMTktMDEtMDUtMTggMTU6Mjc6NTE8L0FjY2Vzc0R
hdGVUaW1lPjxEYXRhRGVmSW5kZXg+MDwvRGF0YURlZkluZGV4PjxBY2Nlc3NUeXBlPlM8L0FjY2Vzc1R
5cGU+PEltYWdlVm9sdW1lSW5kZXg+MTwvSW1hZ2VWb2x1bWVJbmRleD48Rm9sZGVyVHlwZT5HPC9Gb2x
kZXJUeXBlPjxGb2xkZXJMb2NrPk48L0ZvbGRlckxvY2s+PExvY2F0aW9uPlI8L0xvY2F0aW9uPjxEZWx
ldGVkRGF0ZVRpbWU+MjA5OS0xMi0zMSAwMDowMDowMDwvRGVsZXRlZERhdGVUaW1lPjxWZXJzaW9uRmx
hZz5OPC9WZXJzaW9uRmxhZz48RXhwaXJ5RGF0ZVRpbWU+MjA5OS0xMi0zMSAwMDowMDowMDwvRXhwaXJ
5RGF0ZVRpbWU+PENvbW1lbnQ+PC9Db21tZW50PjxBQ0w+VTMjMDExMTExMDExMSxHMSMwMTAwMDAwMTE
xLDwvQUNMPjxGaW5hbGl6ZWRGbGFnPk48L0ZpbmFsaXplZEZsYWc++MDwvUHJlZmVycmVkRm9sZGVySW
5kZXg+PEVuYWJsZURhdGFTZWN1cml0eT5OPC9FbmFibGVEYXRhU2VjdXJpdHk+PC9DYWJpbmV0Pgo8U2
VydmljZXM+CjwvU2VydmljZXM+CjwvTkdPQ29ubmVjdENhYmluZXRfT3V0cHV0Pgo=
```

```
      </outputXML>
</NGOExecuteAPIResponseBDO>
```

Sample response in JSON

Response 1

```
{
  "NGOExecuteAPIResponseBDO": {
    "base64Encoded": "N",
    "outputData": {
      "NGOConnectCabinet_Output": {
        "Status": 0,
        "Services": "",
        "userDBId": 2012281391,
        "Cabinet": {
          "Account": 1,
          "IsAdmin": "Y",
          "EnableDataSecurity": "N",
          "FTSDatabasePath": "sqlcabinet1#2020-08-06 13:36:11",
          "LoginUserIndex": 1,
          "CabinetLockFlag": "N",
          "PersonalName": "Supervisor",
          "SecurityLevel": 2,
          "BuildVersion": "10.1.00",
          "CabinetType": "B",
          "UserTrash": 8,
          "IsMakerCheckerEnabled": "N",
          "UserName": "Supervisor",
          "EnableDDTFTS": "N",
          "cabinetName": "newgencabinet",
          "UserSentItem": 7,
          "UserInbox": 6,
          "LastLoginTime": "2020-11-21 17:56:44.08",
          "VersionFlag": "N",
          "CreationDateTime": "2020-07-14 13:52:03.683",
          "ImageVolumeIndex": 3,
          "UserPasswordExpire": "N",
          "PreferredFolderIndex": 0,
          "Privileges": 1111111111111111,
          "ThemeColor": "1281dd"
        },
        "LeftLoginAttempts": 5,
        "Option": "NGOConnectCabinet",
        "Folders": {
          "Folder": {
            "NoOfSubFolders": 1,
            "FinalizedDateTime": "2020-07-14 13:52:03.683",
            "Owner": "Supervisor",
            "DeletedDateTime": "2020-07-14 13:52:03.683",
            "FinalizedFlag": "N",
            "ACLMoreFlag": "N",
            "FolderName": "sqlcabinet1",
```

```
            "DataDefIndex": 0,
            "AccessType": "S",
            "FolderType": "G",
            "Comment": "",
            "LoginUserRights": 111111111111,
            "AccessDateTime": "2020-11-10 15:24:00.0",
            "FolderLock": "N",
            "ACL": "G1#010000011,U4#011101011,U3#011101011,U5#011111011,",
            "FolderIndex": 0,
            "OwnerIndex": 1,
            "ersionFlag": "N",
            "CreationDateTime": "2020-07-14 13:52:03.683",
            "ImageVolumeIndex": 3,
            "ExpiryDateTime": "2120-07-13 13:52:03.683",
            "RevisedDateTime": "2020-07-14 13:52:03.683",
            "NoOfDocuments": 0,
            "ParentFolderIndex": -1,
            "Location": "R"
          }
        },
        "twoFactorAuthenticationFlag": "",
        "UserType": "U"
      }
    }
  }
}
```

Response 2

```
{
  "NGOExecuteAPIResponseBDO": {
    "base64Encoded": "Y",
    "outputData": "eyJOR09Db25uZWN0Q2FiaW5ldF9PdXRwdXQiOiB7CiA" +
                  "gICAiU3RhdHVzIjogMCwKICAgICJTZXJ2aWNlcyI6ICIiLAogICAgIlVzZX" +
                  "JEQklkIjogLTEwNzQ0MDEzOTAsCiAgICAiQ2FiaW5ldCI6IHsKICAgICAgI" +
                  "CAiQWNjb3VudCI6IDEsCiAgICAgICAgIiklzQWRtaW4iOiAiWSIsCiAgICAgI"
  }
}
```

Response parameter description

Parameter	Description
outputXML	It applies to XML.
	Output XML of OmniDocs transactional API.
	Maximum length – Not applicable
outputData	It applies to JSON.
	Output JSON of OmniDocs transactional API.
	Maximum length – Not applicable

Parameter	Description
base64Encoded	Base64 encoded flag. Maximum length – 1
statusCode	It shows the Status Code. Maximum length – Integer value

Error code description

The following table describes the error codes:

Code	Message	Description
-4001	Please enter a valid value of authTokenType.	The type of *authTokenType* is invalid.
-4002	AuthTokenType cannot remain empty.	*authTokenType* needs to be mentioned in case the authToken tag is not empty.
-4003	AuthTokenParser cannot remain empty.	The *authTokenParser* property is not mentioned in the tag validation file of web services.
-4004	Invalid Auth Token.	The authentication token is invalid.
-4005	Domain UserName not found.	Domain Username not returned by Authentication or Secure token.
-4006	TokenParser not implemented.	The *TokenParser* class has not been implemented.

Schema definition validation framework

This section provides information about XML Schema Definition (XSD) validation framework for JSON-based Execute API REST Web Services.

> **!** OmniDocsRestWS_11_SP00_00_008 or above must be already deployed on your machine.

Perform the below steps for the XSD validation framework:
1. Open the *ngdbini* folder present in the application server.
   Example: *Jboss\bin\Newgen\NGConfig\ngdbini*

2. Create a folder with the name *OmniDocsWebServicesXsd*.
3. Place the required API Output XSD file in the created folder. The name of the XSD file must be the same as per the Option tag of the Output OmniDocs Transaction API. For example, if the Option tag in NGOConnectCabinet_Output API is *NGOConnectCabinet*, then the name of the XSD file must be *NGOConnectCabinet.xsd*.

> **!** The required XSD file must contain the *maxOccurs* attribute corresponding to the element that may have multiple values. As per the attribute, values are structured and returned in JSON format.

4. Re-deploy the *OmniDocsRestWS.war* file as per the application server or restart the server.

checkInDocument

The *checkInDocument* API allows you to perform check-in or check-out operations on the given document index.

The following are the API details:

- **Service URL**:
    - **XML** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/ checkInDocument*
    - **JSON** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/ checkInDocumentJSON*
- **Service method** – *checkInDocument*
- **Method type** – POST
- **Service method input variables** – Text: *NGOCheckInDocumentBDO* and File: *file*
- **Consumes** – *multipart/form-data*
- **Produces**:
    - **XML** – *application/xml*
    - **JSON** – *application/json*

Sample request in XML

```
<NGOCheckInDocumentBDO>
    <cabinetName>newgencabinet</cabinetName>
    <userDBId></userDBId>
    <currentDateTime></currentDateTime>
    <limitCount>1000</limitCount>
    <checkInOutFlag>N</checkInOutFlag>
    <supAnnotVersion>Y</supAnnotVersion>
    <documentIndex>260</documentIndex>
    <versionComment>test</versionComment>
    <createdByAppName>jpeg</createdByAppName>
    <majorVersion></majorVersion>
    <volumeId>1</volumeId>
    <documentPath>D:\b.txt</documentPath>
    <documentName>documentname</documentName>
    <userName>supervisor</userName>
    <userPassword>supervisor351</userPassword>
    <locale>en_US</locale>
    <authToken></authToken>
    <authTokenType></authTokenType>
```

```
    <oAuth>y</oAuth>
    <appId>2b67b8a0-c784-4989-a474-8967861e4761</appId>
    <accessToken>eyJhbGciOiJ</accessToken>
    <sessionValid>mCD/77AFOX+q09Fv3qHzt</sessionValid>
</NGOCheckInDocumentBDO>
```

Sample request in JSON

```
{
  "NGOCheckInDocumentBDO": {
    "cabinetName": "newgencabinet",
    "userDBId": "",
    "currentDateTime": "",
    "limitCount": "1000",
    "checkInOutFlag": "N",
    "supAnnotVersion": "Y",
    "documentIndex": "1288",
    "versionComment": "test",
    "createdByAppName": "png",
    "majorVersion": "",
    "volumeId": "3",
    "documentPath": "D:/b.txt",
    "documentName": "checkedin",
    "userName": "supervisor",
    "userPassword": "supervisor351",
    "locale": "en_US",
    "authToken": "",
    "authTokenType": "",
    "oAuth": "N",
    "appId": "2b67b8a0-c784-4989-a474-8967861e4761",
    "accessToken": "eyJhbGciOiJIUz",
    "sessionValid": "SzXrhI3adv4LqqbzXtZelYYs+I"
  }
}
```

Request parameter description

The following table lists the request parameters of the *checkInDocument* API:

Parameter	Data type	Mandatory	Parameter description
cabinetName	String	Yes	The cabinet name for connecting to the database. • Valid values – Provide a valid cabinet name. • Default value – Not applicable • Maximum length – 255
userDBId	Integer	No	User database ID, which is returned in the *NGOConnect Cabinet* call. To use the encrypted *userDBId* in a web service request, refer to Appendix B. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Integer value
createdByAppName	String	Yes	Extension of the document. For example, JPG, GIF, and so on. It is required in case of check-in of the document. It becomes an optional tag in case of Checkout and Undo Checkout operations. • Valid values – Specify the name of the application that created the document. • Default value – Not applicable • Maximum length – 30
userName	String	Yes	Name of the login user. In case *userDBId* is not being provided in the REST web service request, then the *userName* and *userPassword* must be provided. • Valid values – Enter a valid user name. • Default value – Not applicable • Maximum length – 255

Parameter	Data type	Mandatory	Parameter description
userPassword	String	Yes	The password of the login user. In case *userDBId* is not being provided in the REST web service request, then the *userName* and *userPassword* must be provided. • Valid values – Enter the valid password of the user. • Default value – Not applicable • Maximum length – 255
volumeId	Integer	Yes	Volume Index of the Folder. • Valid values – Enter a valid volume index of the folder. • Default value – Not applicable • Maximum length – Integer value
documentPath	String	No	Path of network drive where documents exist for uploading in OmniDocs. • Valid values – Not applicable • Default value – Not applicable ⓘ This *documentPath* parameter becomes mandatory if the document input stream is not provided in the *file* parameter of the OmniDocs REST webservices. • Maximum length – Not applicable
documentName	String	No	Name of the document in case of check-in the document. It is an optional tag in case of Checkout and Undo Checkout operations. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 64
currentDateTime	Date Time	No	The Date and Time at which the documents are being checked-out or checked-in. • Valid values – Valid date in the format- *yyyy-mm-ddhh:mm:ss* • Default value – Not applicable • Maximum length – Timestamp based on database

Parameter	Data type	Mandatory	Parameter description
limitCount	Integer	No	Maximum number of versions that can be created for the document. It is used only for the CheckIn operation. • Valid values – Integer >= 0 • Default value – Not applicable • Maximum length – 4
checkInOutFlag	Char	Yes	Specifies the desired type of operations namely, CheckIn, CheckOut, Undo CheckOut. • Valid values – *N* for check-in, *Y* for checkout, and *U* for undo checkout • Default value – Not applicable • Maximum length – 1
supAnnotVersion	Char	Yes	Specifies whether the Annotations on the previous version are to be suppressed or not. • Valid values – *Y* for yes and *N* for no • Default value – *N* • Maximum length – 1
documentIndex	Integer	Yes	Document Index of the document that is being checked-in. • Valid values – Integer >= 0 • Default value – Not applicable • Maximum length – Integer value
versionComment	String	No	Comments for the new version of the document. This is used only for the CheckIn operation. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 255
majorVersion	Char	No	Flag to check whether a major version of the document must be created or not. • Valid values – *Y* for yes and *N* for no • Default value – *Y* • Maximum length – 1
locale	String	No	Local of the user. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 6

Parameter	Data type	Mandatory	Parameter description
authToken	String	No	Used for passing Authentication or a secure token. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
authTokenType	Integer	No	Specifies the type of Authentication or Secure Token. • Valid value – 1 for JWT Token • Default value – Not applicable • Maximum length – 1
oAuth	Char	No	Allows or restrict OmniDocs to use webservices through the *OAuth* protocol. • Valid Value – *Y* (Allows OmniDocs to use webservices through the *OAuth* protocol.), *N* (Restrict OmniDocs to use webservices through the *OAuth* protocol.) • Default Value – Not Applicable • Maximum length – 1
appId	String	No	Defines the app-id to consume webservices and perform required operations. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
accessToken	String	No	Specifies the *accessToken* to get access in OmniDocs. In case *oAuth* is enabled on the OmniDocs cabinet, the *accessToken* value returns in the *ConnectCabinet* call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
sessionValid	String	No	Specifies the OmniDocs session expiry time. In case *oAuth* is enabled on the OmniDocs cabinet, the s*essionValid* value returns in the *ConnectCabinet* call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable

Sample response in XML

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<NGOCheckInDocumentResponseBDO>
    <accessDateTime>2018-05-09 19:10:00.0</accessDateTime>
    <accessType>I</accessType>
    <author>Supervisor2</author>
    <checkoutStatus>N</checkoutStatus>
    <comment>test</comment>
    <createdByApp>0</createdByApp>
    <createdByAppName>jpeg</createdByAppName>
    <creationDateTime>2018-05-09 19:10:11.563</creationDateTime>
    <dataDefIndex>0</dataDefIndex>
    <docStatus>A</docStatus>
    <documentIndex>260</documentIndex>
    <documentLock>N</documentLock>
    <documentName>testjpeg</documentName>
    <documentSize>242733</documentSize>
    <documentType>I</documentType>
    <documentVersionNo>2.0</documentVersionNo>
    <enableLog>Y</enableLog>
    <expiryDateTime>2118-05-02 15:00:06.727</expiryDateTime>
    <failedDocuments></failedDocuments>
    <finalizedDateTime>2118-05-02 15:00:06.727</finalizedDateTime>
    <finalizedFlag>N</finalizedFlag>
    <message>Document Successfully Checked-In.</message>
    <noOfPages>1</noOfPages>
    <ownerIndex>2</ownerIndex>
    <parentFolderIndex>30</parentFolderIndex>
    <revisedDateTime>2018-05-09 19:10:00.0</revisedDateTime>
    <status>0</status>
    <textISIndex>0#0#</textISIndex>
    <thumbNailFlag>N</thumbNailFlag>
    <versionFlag>N</versionFlag>
    <aCLMoreFlag>N</aCLMoreFlag>
    <fTSDocumentIndex>0</fTSDocumentIndex>
    <fTSFlag>PP</fTSFlag>
    <iSIndex>347#1#</iSIndex>
    <oDMADocumentIndex></oDMADocumentIndex>
</NGOCheckInDocumentResponseBDO>
```

Sample response in JSON

```json
{
  "NGOCheckInDocumentResponseBDO": {
    "accessDateTime": "2020-11-24 16:11:00.0",
    "accessType": "S",
    "author": "Supervisor",
    "checkoutStatus": "N",
    "comment": "checking comment",
    "createdByApp": "0",
    "createdByAppName": "png",
```

```
        "creationDateTime": "2020-11-24 16:11:03.873",
        "dataDefIndex": "0",
        "docStatus": "A",
        "documentIndex": "1288",
        "documentLock": "N",
        "documentName": "'",
        "documentSize": "217614",
        "documentType": "I",
        "documentVersionNo": "1.6",
        "enableLog": "Y",
        "expiryDateTime": "2120-11-20 21:44:27.807",
        "failedDocuments": "",
        "finalizedDateTime": "2120-11-20 21:44:27.807",
        "finalizedFlag": "N",
        "message": "Document successfully check-in.",
        "noOfPages": "1",
        "ownerIndex": "1",
        "parentFolderIndex": "61",
        "revisedDateTime": "2020-11-24 16:11:00.0",
        "status": "0",
        "textISIndex": "0#0#",
        "thumbNailFlag": "N",
        "versionFlag": "N",
        "aCLMoreFlag": "N",
        "fTSDocumentIndex": "0",
        "fTSFlag": "PP",
        "iSIndex": "434#3#",
        "oDMADocumentIndex": ""
    }
}
```

Response parameter description

The following table lists the response parameters of the *checkInDocument* API:

Parameter	Description
status	Status code of the document to be Checked-In. Maximum length – Integer value
author	Name of the Author of the document. Maximum length – 255
checkOutBy	Index of the user who has checked out this document. Maximum length – Integer value
checkOutStatus	Indicates whether the document has been checked out or not. • *N* – No • *Y* – Yes • Maximum length – 1

Parameter	Description
comment	Comments added by you on the document. Maximum length – 1000
createdByApp	Not used. Maximum length – 255
createdByAppName	Extension of the Document. For example, JPG, GIF, and so on. Maximum length – 32
createdDateTime	Creation Date and Time of the document. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
docStatus	Specifies the status of the document. • *R* – Read • *A* – Unread • Maximum length – 1
documentIndex	Index of the document that is to be added. Maximum length – Integer value
documentLock	A flag that specifies whether you have locked the object. • *Y* – Object is locked. • *N* – Object is not locked. • Maximum length – 1
documentName	Name of the added document. Maximum length – 255
documentSize	Size of the document in bytes. Maximum length – Integer value
documentType	Specifies the type of the document. • *I* – Image • *N* – Non-image • *A* – Reserved • Maximum length – 1
documentVersionNo	Specifies the current version of the document. Maximum length – 7.2, here 7 is integer and 2 is decimal value
enableLog	A flag that specifies whether to generate a log for the added document. • *Y* – Log is generated • *N* – Log not generated • Maximum length – 1

Parameter	Description
expiryDateTime	Date and Time when the document will expire. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
finalizedDateTime	Date and Time when the document was finalized. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
finalizedFlag	A flag that specifies whether the document is finalized. • *Y* – Document is finalized • *N* – Document is not finalized • Maximum length – 1
ftsDocumentIndex	Not used. Maximum length – Integer value
noOfPages	Specifies the number of pages in the document. Maximum length – Integer value
odmaDocumentIndex	Not used. Maximum length – 128
ownerIndex	Index of the Owner of the document. Maximum length – Integer value
parentFolderIndex	Specifies the Index of the Parent Folder of the document. Maximum length – Integer value
revisedDateTime	Revision Date and Time of the document. Maximum length – Timestamp in PostgreSQL and datetime in MSSQL
textISIndex	Not used. Maximum length – Integer
thumbNailFlag	Specifies whether Thumbnail related information is present. • *Y* – Contains data related to Thumbnail View • *N* – Do not contain the data related to Thumbnail View • Maximum length – 1
versionFlag	Specifies whether document versioning is allowed. • *Y* – Versioning is allowed. • *N* – Versioning is not allowed. • Maximum length – 1

Error code description

The following table describes the error codes:

Code	Message	Description
-50023	Document not found.	The document on which the operation is to be performed does not exist.
-50132	Document has been deleted.	The document on which the operation is to be performed has been deleted.
-50071	Document has been checked out.	The check-in or Undo Check-Out operation on the document failed as some user other than the logged-in user has checked out the document.
-50086	Document has expired.	The document on which you want to perform the Check-Out or Check-In operation has expired.
-50027	Properties of the Document have been finalized.	Properties of the document on which you want to perform the Check-Out or Check-In operation have been finalized.
-50026	Document is in use.	Document has been locked for some purpose.
-50022	Insufficient rights for the current operation.	You do not have sufficient Rights. You must have Read Rights on the document.
-50158	Document is already checked out.	Unable to check-out a document as it has already been checked-out.
-50159	Document is not checked out.	Unable to check-in a document as it has not been checked-out.
-50174	Limit on number of Versions exceeded.	The Data Class for which you want to get the Rights does not exist in the system.
-50053	Check rights failed.	Check Rights operation failed internally.
-4001	Please enter valid value of authTokenType.	The type of authTokenType is invalid.
-4002	AuthTokenType cannot remain empty.	AuthTokenType must be mentioned in case the *authToken* tag is not empty.
-4003	AuthTokenParser cannot remain empty.	*AuthTokenParser* property is not mentioned in the tag validation file of web services.

Code	Message	Description
-4004	Invalid Auth Token.	The authentication token is invalid.
-4006	TokenParser not implemented.	The *TokenParser* class has not been implemented.

encryptData

The *encryptData* API allows you to perform data encryption.

The following are the API details:

- **Service URL**:
    - **XML** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/encryptData*
    - **JSON** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/ encryptDataJSON*
- **Service method** – *encryptData*
- **Method type** – POST
- Service method input variables:
    - **XML** – *Application/XML: NGOEncryptBDO*
    - **JSON** – *Application/JSON: NGOEncryptBDO*
- **Consumes**:
    - **XML** – *application/xml*
    - **JSON** – *application/json*
- **Produces**:
    - **XML** – *application/xml*
    - **JSON** – *application/json*

Sample request in XML

```
<NGOEncryptBDO>
     <plantext>Hello</plantext>
</NGOEncryptBDO>
```

Sample request in JSON

```
{
  "NGOEncryptBDO": {
    "plantext": "Hello",
  }
}
```

Request parameter description

The following table lists the request parameters for the *encryptData* API:

Parameter	Data type	Mandatory	Parameter description
NGOEncryptBDO	Not applicable	Yes	Name of the request parameter. • Valid values – Provide the name of the request parameter. • Default value – Not applicable • Maximum length – Not applicable
plantext	String	Yes	The plain text that you want to encrypt. • Valid values – Enter the plain text that you need to encrypt. • Default value – Not applicable • Maximum length – Not applicable

Sample response in XML

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<NGOEncryptResponseBDO>
    <ciphertext>:sz-C;K-C;B-C;N</ciphertext>
    <status>0</status>
</NGOEncryptResponseBDO>
```

Sample response in JSON

```json
{
    "NGOEncryptResponseBDO": {
        "ciphertext": ":sz-C;K-C;B-C;N",
        "status": "0"
    }
}
```

Response parameter description

The following table lists the response parameters of the *encryptData* API:

Parameter	Description
status	Status code of the API. Maximum length – Integer value
error	Error message if any occurred. Maximum length – Not applicable
ciphertext	Encrypted text. Maximum length – Not applicable

Error code description

The following table describes the error codes:

Code	Message	Description
-1101	NA	Any exception occurred.
-1102	Plain text cannot be blank.	If the plain text tag is empty.

getDocumentStream

The *getDocumentStream* API returns the stream of the document with the input *docIndex*.

The following are the API details:

- **Service URL**:
    ◦ **XML** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/ getDocumentStream*
    ◦ **JSON** – *http://<Server IP:Port>/OmniDocsRestWS/rest/services/ getDocumentStreamJSON*
- **Service method** – *getDocumentStream*
- **Method type** – POST
- **Service method input variable**s:
    ◦ **XML** – *Application/XML: NGOGetDocumentBDO*
    ◦ **JSON** – *Application/JSON: NGOGetDocumentBDO*
- **Consumes**:
    ◦ **XML** – *application/xml*
    ◦ **JSON** – *application/json*
- **Produces**:
    ◦ **XML** – *application/octet-stream*
    ◦ **JSON** – *application/octet-stream*
- **Status**:
    ◦ 200 for the successful execution. Refer to the response header for more details.
    ◦ 400 for the bad request. Refer to the response header for more details.

Sample request in XML

```
<NGOGetDocumentBDO>
    <cabinetName>samplecabinet</cabinetName>
    <docIndex>5012</docIndex>
    <userName>alexjones</userName>
    <userPassword>password</userPassword>
    <userDBId></userDBId>
    <locale>en_US</locale>
```

```
    <oAuth>y</oAuth>
    <appId>2b67b8a0-c784-4989-a474-8967861e4761</appId>
    <accessToken>eyJhbGciOiJ</accessToken>
    <sessionValid>mCD/77AFOX+q09Fv3qHzt</sessionValid>
</NGOGetDocumentBDO>
```

Sample request in JSON

```
{
  "NGOGetDocumentBDO": {
    "cabinetName": "samplecabinet",
    "docIndex": "5012",
    "userName": "supervisor",
    "userPassword": "system123#",
    "userDBId": "",
    "locale": "en_US",
    "oAuth": "N",
    "appId": "2b67b8a0-c784-4989-a474-8967861e4761",
    "accessToken": "eyJhbGciOiJIUz",
    "sessionValid": "SzXrhI3adv4LqqbzXtZelYYs+I"
  }
}
```

Request parameter description

The following table lists the request parameters of the *getDocumentStream* API:

Parameter	Data type	Mandatory	Parameter description
cabinetName	String	Yes	The cabinet name for connecting to the database. • Valid values – Provide a valid cabinet name. • Default value – Not applicable • Maximum length – 255
docIndex	Integer	Yes	Index of the document. • Valid values – Provide the valid index of the document you need to download. • Default value – Not applicable • Maximum length – Integer value

Parameter	Data type	Mandatory	Parameter description
userName	String	Yes	Name of the sign-in user. In case *userDBId* is not being provided in the REST web service request, then the *userName* and *userPassword* must be provided. • Valid values – Enter a valid user name. • Default value – Not applicable • Maximum length – 255
userPassword	String	Yes	The password of the sign-in user. In case *userDBId* is not being provided in the REST web service request, then the *userName* and *userPassword* must be provided. • Valid values – Enter the valid password of the user. • Default value – Not applicable • Maximum length – 255
userDBId	Integer	No	User database ID which is returned in the *NGOConnect* cabinet call. To utilize the encrypted *userDBId* in a web service request, refer to Appendix B. If *userName* and *userPassword* are absent in the REST web service request, *userDBId* must be provided. • Valid values – Not applicable. • Default value – Not applicable • Maximum length – Integer value
locale	String	No	Local of the user. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 6
oAuth	Char	No	Allows or restrict OmniDocs to use webservices through the *OAuth* protocol. • Valid Value – *Y* (Allows OmniDocs to use webservices through the *OAuth* protocol.), *N* (Restrict OmniDocs to use webservices through the *OAuth* protocol.) • Default Value – Not Applicable • Maximum length – 1

Parameter	Data type	Mandatory	Parameter description
appId	String	No	Defines the app-id to consume webservices and perform required operations. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
accessToken	String	No	Specifies the *accessToken* to get access in OmniDocs. In case *oAuth* is enabled on the OmniDocs cabinet, the *accessToken* value returns in the *ConnectCabinet* call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
sessionValid	String	No	Specifies the OmniDocs session expiry time. In case *oAuth* is enabled on the OmniDocs cabinet, the *sessionValid* value returns in the *ConnectCabinet* call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable

Sample response header

This section describes the sample response header keys of both XML and JSON-based web services.

Key	Value	Key description
DocumentName	sampleDocument	Name of the downloaded document. Maximum length – 255
createdByAppName	tif	Extension of the document. For example, JPG, GIF, or other supported extensions. Maximum length – 32
Content-Disposition	attachment; filename= sampleDocument.tif	It is the content-disposition header. Maximum length – Not applicable
StatusCode	0	It shows the status code. Maximum length – Integer

Key	Value	Key description
DocumentType	I	It specifies the document type. • *I* for image • *N* for non-image • Maximum length – 1
Message	Document stream returned successfully	It shows the message depending on the status code. Maximum length – 255
DocumentSize	26835	Document size in bytes. Maximum length – Integer

addDocumentIS

This *addDocumentIS* API allows you to add a document to Storage Management Server (SMS). You can give the file as a multipart form data with XML or JSON request using the POST method.

The following are the API details:

- **Service URL**:
    - **XML** – *http://<Server IP>:<Port>/OmniDocsRestWS/rest/services/addDocumentIS*
    - **JSON** – *Service URL: http://<ServerIP>:<Port>/OmniDocsRestWS/rest/services/addDocumentISJSON*
- **Service method** – *addDocument*
- **Method type** – POST
- **Service method input variables** – Text: *NGOISAddDocumentBDO* and File: *file.*
- **Consumes** – *multipart/form-data*
- **Produces**:
    - **XML** – *application/xml*
    - **JSON** – *application/json*

Sample request in XML

```
<NGOISAddDocumentBDO>
    <cabinetName>newgencabinet</cabinetName>
    <userDBId></userDBId>
    <volumeId>1</volumeId>
    <userName>supervisor2</userName>
    <userPassword>supervisor351</userPassword>
    <locale></locale>
    <oAuth>y</oAuth>
    <appId>2b67b8a0-c784-4989-a474-8967861e4761</appId>
    <accessToken>eyJhbGciOiJ</accessToken>
    <sessionValid>mCD/77AFOX+q09Fv3qHzt</sessionValid>
</NGOISAddDocumentBDO>
```

Sample request in JSON

```
{
    "NGOISAddDocumentBDO": {
        "cabinetName": "newgencabinet",
        "userDBId": "",
        "volumeId": "1",
        "userName": "supervisor",
        "userPassword": "system123#",
        "locale": "",
        "oAuth": "N",
        "appId": "2b67b8a0-c784-4989-a474-8967861e4761",
        "accessToken": "eyJhbGciOiJIUz",
        "sessionValid": ""
    }
}
```

Request parameter description

The following table lists the request parameters of the *addDocumentIS* API:

Parameter	Data type	Mandatory	Parameter description
cabinetName	String	Yes	The cabinet name for connecting to the database. • Valid values – Provide a valid cabinet name. • Default value – Not applicable • Maximum length – 255
userDBId	Integer	No	User database ID, which is returned in the NGOConnect Cabinet call. To use the encrypted userDBId in a web service request, refer to Appendix B. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Integer value
userName	String	Yes	Name of the login user. In case userDBId is not being provided in the REST web service request, then the userName and userPassword must be provided. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 255

Parameter	Data type	Mandatory	Parameter description
userPassword	String	Yes	The password of the login user. In case userDBId is not being provided in the REST web service request, then the userName and userPassword must be provided. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 255
volumeId	Integer	Yes	Volume Index of the Folder. • Valid values – Enter a valid volume index of the folder. • Default value – Not applicable • Maximum length – Integer value
locale	String	No	Local of the user. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 6
oAuth	Char	No	Allows or restrict OmniDocs to use webservices through the OAuth protocol. • Valid Value – Y (Allows OmniDocs to use webservices through the OAuth protocol.), N (Restrict OmniDocs to use webservices through the OAuth protocol.) • Default Value – Not Applicable • Maximum length – 1
appId	String	No	Defines the app-id to consume webservices and perform required operations. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
accessToken	String	No	Specifies the accessToken to get access in OmniDocs. In case oAuth is enabled on the OmniDocs cabinet, the accessToken value returns in the ConnectCabinet call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable

Parameter	Data type	Mandatory	Parameter description
sessionValid	String	No	Specifies the OmniDocs session expiry time. In case oAuth is enabled on the OmniDocs cabinet, the sessionValid value returns in the ConnectCabinet call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable

Sample response in XML

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<NGOISAddDocumentResponseBDO>
    <statusCode>0</statusCode>
    <ISIndex>223#1</IsIndex>
    <message>Document added into SMS successfully.</message>
</NGOAddDocumentResponseBDO>
```

Sample response in JSON

```json
{
    "NGOISAddDocumentResponseBDO": {
        "ISIndex": "344#1",
        "message": "Document added into SMS successfully.",
        "statusCode": "0"
    }
}
```

Response parameter description

The following table lists the response parameters of the *addDocumentIS* API:

Parameter	Description
ISIndex	Displays the image index of the document added to SMS. Maximum length – Not applicable ⓘ It contains two integer values separated by hash (#).

Parameter	Description
message	Displays the successful message. Maximum length – Not applicable
statusCode	Displays the request status code. Maximum length – Integer value

getDocumentIS

The *getDocumentIS* API allows you to download the documents having the *imageIndex* input from SMS.

The following are the API details:

- **Service URLs**:
  - **XML** – *http://<Server IP>:<Port>/OmniDocsRestWS/rest/services/ getDocumentIS*
  - **JSON** – *http://<Server IP>:<Port>/OmniDocsRestWS/rest/services/ getDocumentISJSON*
- **Service method** – *getDocument*
- **Method type** – POST
- **Service method input variables** – Application/Xml: *NGOISGetDocumentBDO*
- **Consumes**:
  - **XML** – *application/xml*
  - **JSON** – *application/JSON*
- **Produces**:
  - **XML** – *application/xml*
  - **JSON** – *application/xml*

Sample request in XML

```
<NGOISGetDocumentBDO>
    <cabinetName>newgencabinet</cabinetName>
    <imageIndex>5012</imageIndex>
    <volumeId>1</volumeId>
    <siteId>1</siteId>
    <userName>alexjones</userName>
    <userPassword>password</userPassword>
    <userDBId></userDBId>
    <locale>en_US</locale>
    <oAuth>y</oAuth>
    <appId>2b67b8a0-c784-4989-a474-8967861e4761</appId>
    <accessToken>eyJhbGciOiJ</accessToken>
    <sessionValid>mCD/77AFOX+q09Fv3qHzt</sessionValid>
</NGOISGetDocumentBDO>
```

Sample request in JSON

```
{
    "NGOISGetDocumentBDO":
    {
        "cabinetName": "newgencabinet",
        "imageIndex": "344",
        "volumeId": "1",
        "siteId": "1",
        "userName": "username,
        "userPassword": "password",
        "userDBId": "",
        "locale": "en_US",
        "oAuth": "N",
        "appId": "2b67b8a0-c784-4989-a474-8967861e4761",
        "accessToken": "eyJhbGciOiJIUz",
        "sessionValid": ""
    }
}
```

Request parameter description

The following table lists the request parameters of the *getDocumentIS* API:

Parameter	Data type	Mandatory	Parameter description
cabinetName	String	Yes	The cabinet name for connecting to the database. • Valid values – Provide a valid cabinet name. • Default value – Not applicable • Maximum length – 255
volumeId	Integer	Yes	Volume Index of the Folder. • Valid values – Enter a valid volume index of the folder. • Default value – Not applicable • Maximum length – Integer value
imageIndex	Short Integer	Yes	Image index of the document in the Volume. • Valid values – Provide the valid image index of the document. • Default value – Not applicable • Maximum length – Short integer value

Parameter	Data type	Mandatory	Parameter description
siteId	Short Integer	Yes	Index of the site where the SMS is running. • Valid values – Provide a valid site index. • Default value – Not applicable • Maximum length – Short integer value
userDBId	Integer	No	User database ID, which is returned in the NGOConnect Cabinet call. To use the encrypted userDBId in a web service request, refer to Appendix B. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Integer value
userName	String	Yes	Name of the login user. In case userDBId is not being provided in the REST web service request, then the userName and userPassword must be provided. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 255
userPassword	String	Yes	The password of the login user. In case userDBId is not being provided in the REST web service request, then the userName and userPassword must be provided. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 255
locale	String	No	Local of the user. • Valid values – Not applicable • Default value – Not applicable • Maximum length – 6
oAuth	Char	No	Allows or restrict OmniDocs to use webservices through the OAuth protocol. • Valid Value – Y (Allows OmniDocs to use webservices through the OAuth protocol.), N (Restrict OmniDocs to use webservices through the OAuth protocol.) • Default Value – Not Applicable • Maximum length – 1

Parameter	Data type	Mandatory	Parameter description
appId	String	No	Defines the app-id to consume webservices and perform required operations. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
accessToken	String	No	Specifies the accessToken to get access in OmniDocs. In case oAuth is enabled on the OmniDocs cabinet, the accessToken value returns in the ConnectCabinet call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable
sessionValid	String	No	Specifies the OmniDocs session expiry time. In case oAuth is enabled on the OmniDocs cabinet, the sessionValid value returns in the ConnectCabinet call response. • Valid values – Not applicable • Default value – Not applicable • Maximum length – Not applicable

Sample response in XML

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<NGOISGetDocumentBDOResponse>
    <docContent>iVBORw0KGgoAAAANSUhEUgAAAz8AAAJRCAIAAADkvp6KAAAAAXNSR0IArs4c6QAAAA
RnQU1BAACxjwv8YQUAAAAJcEhZcwAAFiUAABYlAUlSJPAAAJfKSURBVHhe7f1PkCNHnueHJtmzqz5WPx1e
tnSp1rskW5fkM3tLFGfWlG3vMEldJjmXRu+zXUZy1tTokZk</docContent>
    <documentSize>20153728</documentSize>
    <message>File downloaded successfully.</message>
    <statusCode>0</statusCode>
</NGOISGetDocumentBDOResponse>
```

Sample response in JSON

```json
{
    "NGOISGetDocumentBDOResponse":
    {
        "docContent": "ZWh0c3JuaGZoZ2==",
        "documentSize": "109",
        "message": "File downloaded successfully.",
```

```
        "statusCode": "0"
    }
}
```

Response parameter description

The following table lists the response parameters of the *getDocumentIS* API:

Parameter	Description
docContent	Displays the document content in base64 encoded string. Maximum length – length varied based on document
documentSize	Displays the size of the downloaded document. Maximum length – Integer value
message	Displays the successful message. Maximum length – 255
statusCode	Displays the request status code. Maximum length – Integer value

Appendices

This section contains the following appendices:

Appendix A - framework for authentication token

This appendix provides information about the framework for authentication token implementation in OmniDocs REST Web Services.

Implementing an authentication token Parser

To implement an authentication token parser, perform the below steps:

1. Set up a Java project.
2. In the package *com.newgen.authToken*, create a class with the name *TokenParser*. This class implements an *AuthTokenParser* interface.

   The *AuthTokenParser* interface is available in *WebServicesHook.jar* located at the common library of the application server.

   The *AuthTokenParser* interface contains the following methods for implementation:

```
boolean isTokenValid(String authToken)
{
}
```

```
HashMap<String, String> fetchUserPropfromToken(String authToken)
{
}
```

3. After implementing the class *TokenParser.java*, follow the below steps:
    a. Stop the application server.
    b. Compile the *TokenParser.java* file and move it into the *WebServicesHook.jar\com\newgen* folder of the deployed application server.
4. Restart the application server.

Executing REST web services with authentication token

To use the custom authentication token functionality, perform the below steps:

1. In the REST web services request URLs, pass the value of *<authToken>* and *<authTokenType>* tags.
2. While generating a session ID using *NGOConnectCabinet* call in the executeAPI web service, it must fulfill the following criteria:
   • The Authentication Token must be valid.
   • The Authentication Token must return a HashMap having the key username and domain username as its value.
   Example:

```
{
"username": "alex@newgensoft.com"
}
```

3. The *NGOConnectCabinet* call input request must be as follows:
   For XML:

```
<NGOConnectCabinet_Input>
<Option>NGOConnectCabinet</Option>
<cabinetName>cabinet_name</cabinetName>
</NGOConnectCabinet_Input>
```

   For JSON:

```
{
"NGOConnectCabinet_Input": {
"Option": "NGOConnectCabinet",
"cabinetName": "cabinet_name"
```

```
    }
    }
```

4. In the case of other calls except for the *executeAPI*, if *authToken* and *authTokenType* are passed in the request call, it validates the authentication token and then processes further if the token is valid.

Appendix B – encrypting userDBId

This section describes the encryption of *userDBId* to secure the user details.

To encrypt the *userDBId* in the web services request and response, perform the below steps:

1. Go to the server directory and open the *WebServicesTagValidation.properties* file. For example, in the case of the JBoss application server, this properties file is located at *Jboss\bin\Newgen\NGConfig\ngdbini*.
2. Modify the *encruserDBId* property value to *Y*.
   ```
   encruserDBId=Y
   ```
3. Save the *WebServicesTagValidation.properties* file.
4. Re-deploy the *OmniDocsRestWS.war* file or restart the server.
5. Call the *NGOConnectCabinet* API using *executeAPI* web service. It returns the encrypted value of *userDBId* in its response. You must use this encrypted *userDBId* in all corresponding or subsequent API calls.

FAQs

The FAQs for OmniDocs REST web services are as follows:

1. **What are the URLs of OmniDocs REST web services?**
   Following are the URLs of OmniDocs REST web services:
   JSON-based
   - Document upload – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/addDocumentJSON*
   - Document download – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/getDocumentJSON*
   - Transactional API – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/executeAPIJSON*
   - Checked-in document – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/checkInDocumentJSON*
   - Security API – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/encryptDataJSON*
   - Document stream download – http://{server_ip}:{port}/OmniDocsRestWS/rest/services/getDocumentStreamJSON
   - Document upload into SMS – http://{server_ip}:{port}/OmniDocsRestWS/rest/services/*addDocumentISJSON*
   - Document download from SMS – http://{server_ip}:{port}/OmniDocsRestWS/rest/services/*getDocumentISJSON*

   XML-based

   - Document upload – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/addDocument*
   - Document download – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/getDocument*
   - Transactional API – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/executeAPI*
   - Checked-in document – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/checkInDocument*

- Security API – *http://{server_ip}:{port}/OmniDocsRestWS/rest/services/ encryptData*
- Document stream download – http://{server_ip}:{port}/OmniDocsRestWS/rest/ services/getDocumentStream
- Document upload into SMS – http://{server_ip}:{port}/OmniDocsRestWS/rest/ services/*addDocumentIS*
- Document download from SMS – http://{server_ip}:{port}/OmniDocsRestWS/ rest/services/*getDocumentIS*

2. **What steps can be taken to mitigate potential memory space (heap space) issues on the server when downloading a document in the base64-encoded format using the *getDocument* web service?**

This restriction is configurable and can be changed as per the heap space available on the server.

> ⓘ By default, downloading documents of size 50 MB or below is allowed.

The following are the configuration steps:

1. Go to the server directory and open the *WebServicesTagValidation.properties* file.
   For example, in the case of JBoss EAP, the *WebServicesTagValidation.properties* file is located at:
   - **For OmniDocs 11.0 Patch 2 and earlier** – *Jboss/bin/ngdbini*
   - **For OmniDocs 11.0 SP1 and later** – *Jboss/bin/Newgen/NGConfig/ngdbini*
2. Modify the *downloadSize* property based on your requirement.
   ```
   downloadSize=60
   ```
3. Save the *WebServicesTagValidation.properties* file.
4. Re-deploy the *OmniDocsRestWS.war* file or restart the application server.

3. **How can uniqueness be applied to the document name when downloading to a server or network location using the *getDocument* web service?**

This is possible using a configuration key in the *WebServicesTagValidation.properties* file.

> ⓘ By default, the document gets downloaded with its name. If the key is set to *true*, then the document index gets appended to the document name.
> For example, if the document being downloaded has *Document Index = 5012* and *Document Name = Sample document.pdf*, then the document downloaded at the server location is named as *5012_Sample document.pdf*.

The following are the configuration steps:

1. Go to the server directory and open the *WebServicesTagValidation.properties* file.

For example, in the case of JBoss EAP, the *WebServicesTagValidation.properties* file is located at:

- **For OmniDocs 11.0 Patch 2 and earlier** – *Jboss/bin/ngdbini*
- **For OmniDocs 11.0 SP1 and later** – *Jboss/bin/Newgen/NGConfig/ngdbini*

2. Modify the *isDynamicDocName* property to *true*.

```
isDynamicDocName=true
```

3. Save the *WebServicesTagValidation.properties* file.
4. Re-deploy the *OmniDocsRestWS.war* file or restart the application server.

4. **How many OmniDocs operations can be performed through OmniDocs REST web services?**

There are five web services available to perform all OmniDocs operations through the REST web services (both XML and JSON-based). The following are the operation names:

- Add document
- Download document
- Check-In document
- Security API
- Execute API

> ⓘ The Execute API web service allows you to execute OmniDocs transaction APIs.

5. **How can I give the document path in OmniDocs REST Web Services?**

The OmniDocs *addDocument* web service does not require the document path. It takes the document as *InputStream*.

- If you have written the code to consume the *Add document* web service, then you must provide the document *InputStream*.
- If you are testing the *Add document* web service through Postman, then follow the below steps:
  1. Open Postman.
  2. Make the Method request to POST.
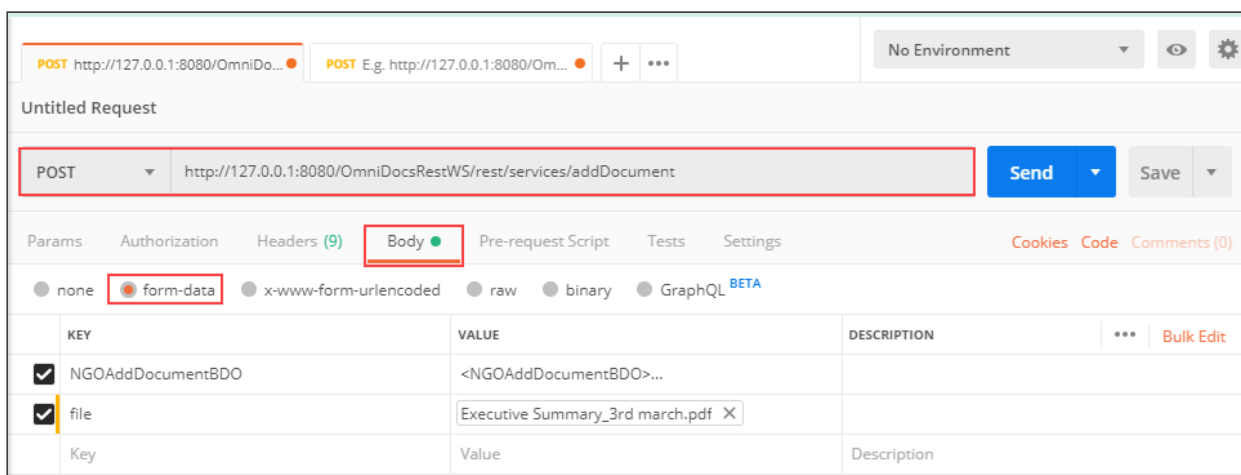 3. Enter the *Add document* web service URL.
     Example: *http://127.0.0.1:8080/OmniDocsRestWS/rest/services/addDocument*
  4. Click the **Body** tab.
  5. Select the **form-data** tab.
  6. Enter the key *NGOAddDocumentBDO* and set its value to *input xml*.
  7. Enter the key file and set its value to the *File path*.

> A similar pattern is used to provide a file path for the *Check-In document* web service.

6. **How is the end-user authenticated in OmniDocs Web Services?**
   In OmniDocs web services, you must use OmniDocs User Name and User Password or userDBId of the user for authentication to run web services.

7. **Will the response be automatically provided based on the authorization access to the user?**
   Yes, the response is provided based on user access.

8. **What are the different user authentication mechanisms in OmniDocs REST web services?**
   You can use different authentication mechanisms to encrypt the user password. The following are the supported password encryption algorithms:
   - SHA-256
   - SHA-512

9. **Where do the authentication and rights accesses come into place for the Downloaded or Uploaded documents?**
   OmniDocs APIs cannot be executed without the authentication of a user. Authentication comes in the first place, and after that, the user accesses the resources.

10. **What is the process for testing REST web services using Postman?** For the *Add document* web service:
    1. Open Postman.
    2. Make the method request to POST.
    3. Enter the *Add document* web service URL.
    4. Example: *http://127.0.0.1:8080/OmniDocsRestWS/rest/services/addDocument*
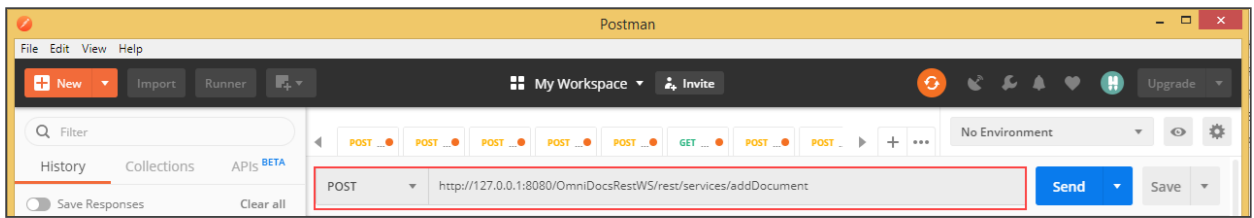
5. Click the **Body** tab.
6. Select the **form-data** tab.
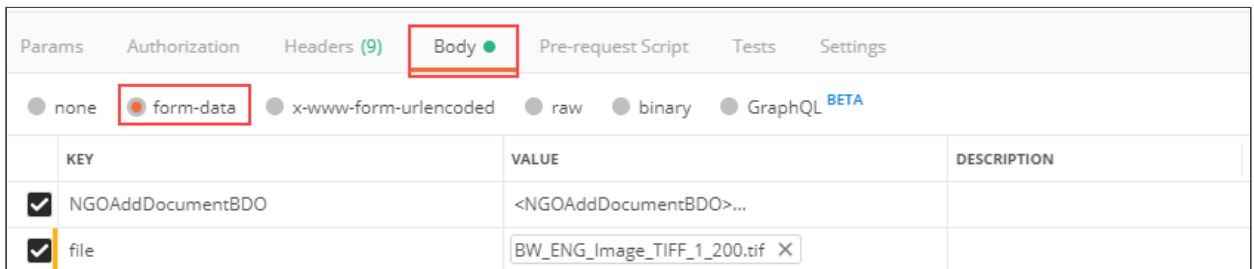
7. Enter the key *NGOAddDocumentBDO* and set its value to *input xml*.
8. Enter the key *file* and set its value to the *File path*.
9. Click **Send** to execute the request.

> ❗ A similar pattern is used to provide a file path in the *Check-In document* web service.

For the *Download document* web service:

1. Open Postman.
2. Make the method request to POST.
3. Enter the *Download document* web service URL.
   Example: *http://127.0.0.1:8080/OmniDocsRestWS/rest/services/getDocument*
4. Click the **Body** tab.
5. Select the **raw** tab and then select **XML** format.
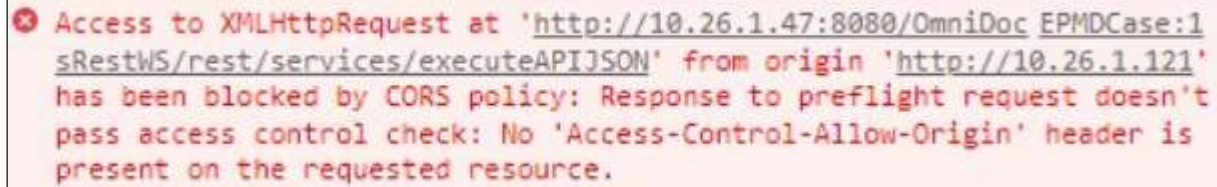6. Give the *Download document* input XML as described in the getDocument section.
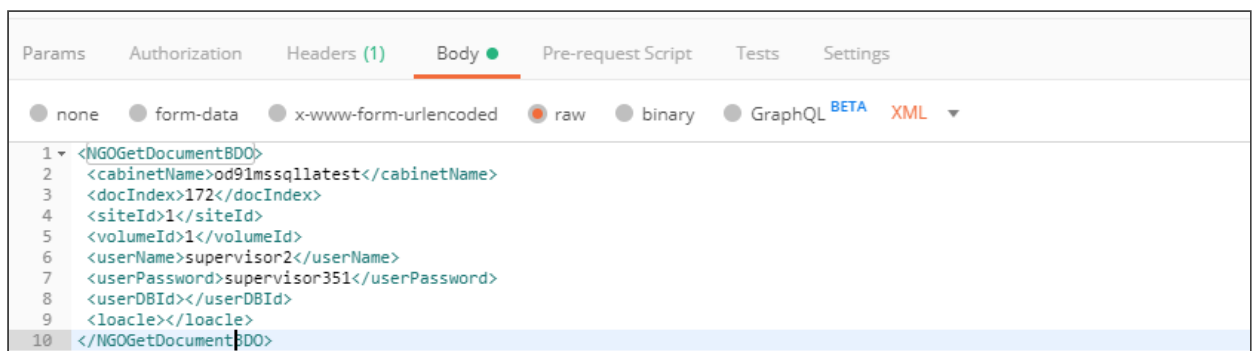
7. Click **Send** to execute the request.

> ❗ A similar pattern is used to call the *Security* web service.

11. **What can I do if I get a CORS error while using OmniDocsRestWS on the JBoss application server from a different server?**

While accessing OmniDocs REST Web Services from different servers, you might get the following error:

To resolve the above error, perform the below steps for the JBoss application server:

1. Open the *standalone.xml* file in edit mode.
2. Look for the below code snippet:

```
<https-listener name="https" socket-binding="https" max-post-
size="1717986920" securityrealm="
ApplicationRealm" enable-http2="true"/>
```

3. Add the below code snippet after the above-mentioned code snippet:

```
<host name="default-host" alias="localhost">
<location name="/" handler="welcome-content"/>
<filter-ref name="Access-Control-Allow-Headers"/>
<filter-ref name="Access-Control-Allow-Origin"/>
<filter-ref name="Access-Control-Allow-Methods"/>
<http-invoker security-realm="ApplicationRealm"/>
</host>
```

4. Inside the below code snippet:

```
<subsystem xmlns="urn:jboss:domain:undertow:7.0" default-server="default-
server" default-virtualhost="
default-host" default-servlet-container="default" default-security-
domain="other">
//Add the below code snippet:
<filters>
<response-header name="Access-Control-Allow-Headers" header-name="Access-
Control-Allow-
Headers" header-value="Access-Control-Allow-Origin,Origin, X-Requested-
With, Content-Type,
Accept, Authorization,Access-Control-Allow-Methods"/>
<response-header name="Access-Control-Allow-Origin" header-name="Access-
Control-Allow-
Origin" header-value="*"/>
<response-header name="Access-Control-Allow-Methods" header-name="Access-
Control-Allow-
Methods" header-value="GET, PUT, POST, DELETE, HEAD, OPTIONS"/>
</filters>
```

5. Restart the server.

12. **Is the format of the date-type field of a data class or global index configurable?**

    Yes, the format of the date-type field of a data class or global index is configurable. The supported date and time formats are:

    - Date format:
        - *uuuu/MM/dd*, for example, *2023/05/15*
        - *uuuu-MM-dd*, for example, *2023-05-15*
    - Time format:
        - *HH:mm:ss.SSS*, for example, *14:32:48.263*
        - *HH:mm:ss*, for example, *14:32:48*

To change the format of a date-type field, perform the following steps:

1. Go to the folder where your application server is installed.
2. Open the *WebServicesTagValidation.properties* file using any text editor.
   For example, in the case of the JBoss application server, this properties file is in the *Jboss\bin\Newgen\NGConfig\ngdbini* folder.
3. Modify the *DateFormat* and *TimeFormat* values as given below:
   ```
   DateFormat=uuuu/MM/dd
   TimeFormat=HH:mm:ss
   ```
4. Save the *WebServicesTagValidation.properties* file.
5. Re-deploy the *OmniDocsRestWS.war* file or restart the server.

13. **If the *downloadLocation* tag in the input request refers to a server location that does not exist, an error stating that the download location is invalid is generated. Does the *getDocument* service have the capability to create a directory on the drive or network location if it doesn't already exist?**
   Yes, you can specify a location that does not currently exist. In such a case, the *getDocument* service creates the necessary folder hierarchy on the server or network location to facilitate the file download.

   To achieve this, perform the following steps:

   1. Go to the server directory and open the *WebServicesTagValidation.properties* file.
      For example, in the case of JBoss EAP, the *WebServicesTagValidation.properties* file is located at:
      • **For OmniDocs 11.0 Patch 2 and earlier** – *Jboss/bin/ngdbini*
      • **For OmniDocs 11.0 SP1 and later** – *Jboss/bin/Newgen/NGConfig/ngdbini*
   2. Modify the *createDir* property value to *true*.
   3. Save the file.
   4. Re-deploy the *OmniDocsRestWS.war* file or restart the application server.

14. **How to keep JSON objects as either strings or their corresponding primitive data types in the output?**

To keep JSON objects as either string or their primitive datatypes in the output, perform the following steps:

1. Go to the server directory and open the *WebServicesTagValidation.properties* file. For example, in the case of JBoss EAP, the *WebServicesTagValidation.properties* file is located at:
   - **For OmniDocs 11.0 Patch 2 and earlier** – *Jboss/bin/ngdbini*
   - **For OmniDocs 11.0 SP1 and later** – *Jboss/bin/Newgen/NGConfig/ngdbini*
2. Modify the *KeepStrings* property value to N. By default, its value is *Y*.
3. Save the file.
4. Re-deploy the *OmniDocsRestWS.war* file or restart the application server.

15. **How to use OmniDocs REST Web Services with oAuth enabled on the OmniDocs cabinet?**

OAuth and required parameters need to be passed in the web services input request. For reference, see the sample request and parameter descriptions of the addDocument, getDocument, checkInDocument, addDocumentIS, or getDocumentStream.

To execute the parameter, follow the below steps:

1. Make the *ConnectCabinet* call with an oAuth enabled user by passing the appropriate input parameters using the *executeAPI* web service.
2. Modify the *AccessDetails* (appId, accessToken, and sessionValid) parameters returned in the *ConnectCabinet* call response accordingly with the help of the provided keys.
3. Pass the modified *AccessDetails* (appId, accessToken, sessionValid) parameters in the subsequent web service calls, that is, add document, get document, check-in document, add document into SMS, and get document stream web services.