opentext™

OpenText™ Fax

Web API SDK Installation and Quick Start Guide

Installation and Quick start guide for OpenText Fax Web API SDK.

FXNET240400-PWA-EN-01

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This documentation has been created for OpenText™ Fax CE 24.4.
It is also valid for subsequent software releases unless OpenText has made newer documentation available with the product, on an OpenText website, or by any other means.

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Chapter 1

Overview

Developers can use the OpenText Fax Web API to integrate with supported OpenText Fax servers. The API was designed so all significant logic and business rules are implemented on the server. This minimizes the amount of work that clients need to do and ensures consistency across clients.

With the OpenText Fax Web API, developers can write code that can:

- Send, receive, check status, route, forward, retry and cancel faxes.

- Retrieve fax pages in various formats.

- Manage users and user settings.

- Manage contacts and contact groups.

Other than some user settings, the Web API generally does not handle administrative functions or configuration of system-wide resources.

The OpenText Fax Web API uses the RESTful architectural style, an open standard commonly used on the Web, which uses HTTP requests to retrieve resources that are identified by unique URLs.

The REST (REpresentational State Transfer) standards in the API include a root URL, the internet media type JSON (JavaScript Object Notation), standard HTTP methods (GET, PUT, POST, DELETE), and hypertext links to resources (relative URLs).

The API supports languages and platforms that can generate HTTP requests and handle JSON responses, including C#, BASIC, C/C++, and JavaScript.

1.1 Supported products

The following products are supported by the OpenText Fax Web API:

- OpenText Fax 16 Enhancement Pack 6 or later

- OpenText Fax SDK (fax server emulator and test client)

1.2   SDK tools

Tools for writing and testing your code include:

- The API Reference provides detailed documentation about the resources and operations exposed by the API, including sample response and request formats in JSON. The API Reference is located at http://*server*/rightfaxsdk/api/help, where *server* is the name of the computer where you have installed the SDK.

- An emulator. A limited-function simulated fax server that is installed when you install the SDK. You can use the emulator to test your code without the need for an actual fax server. It is pre-configured with sample data and users. See "Using the fax server emulator" on page 11.

- A test client. You can use the test client with the emulator to simplify troubleshooting and diagnostics. See "Using the test client" on page 12.

- Sample code. To view sample code, click **Start** on the computer where the SDK is installed. Click **RightFax Web API SDK**, and then click **SDK Sample Code**.

Chapter 2

Getting started with the API

You can start working with the API by sending a request to a web browser, and then looking at the result.

You can use a dedicated tool for working with HTTP requests and responses. Fiddler, for example, is a Windows-based tool with a Composer function that can create and execute HTTP requests and display the responses. (Fiddler, while recommended, is not provided with the SDK.)

REST dictates that resources describe their relationships to other resources. When you GET a user, for example, the response contains links to the user's documents, contacts, and more... even a link to itself. Each link contains a unique string that describes the relationship, along with a URL for the related resource. To get a list of the user's documents, you would look for the Documents link and GET that URL.

For more information about using GET, see "Retrieving resources" on page 9.

2.1 The API Root URL

Products that are supported by the OpenText Fax Web API automatically configure IIS so the following API root URL will access the API:

http://*server*/*product*/api

where *server* is the computer name and *product* is RightFaxSDK or RightFax. For supported versions, see the "Overview" on page 5.

On the OpenText Fax SDK home page, the **Explore Web API** button links to the root URL of the fax server emulator.

When prompted, enter the user name and password of an existing user. With the emulator, the default administrator credentials are:

• User name = admin

• Password = password

For information about how to manage authentication in your programs, see "Authentication" on page 13.

2.2 Resource URLs

The JSON response to the API root URL includes links to the top-level resource types, along with resource links that are specific to the currently signed-in user.

Following the links provided, you can access the specific resources you need.

! **Important**

To ensure that your program will continue to work as the API evolves, you should not hard-code links in your code, but instead use the URLs that are returned in JSON responses.

Chapter 3

Retrieving resources

Your code should initially GET Root (which has no relative URL) as follows:

GET http://*server*/*product*/api

The response provides links (unique URLs) that you can use to get resources. For example, the *Users* link returns data that contains links to all of the user's resources, such as documents, contacts, and settings.

You can retrieve user 23 by creating an HTTP request with the GET verb and the resource's URL as follows:

GET http://*server*/*product*/API/users/23

The JSON response for user 23 would include the following (JSON truncated for viewing convenience):

```
{
"Id": "23",
"DisplayName": "Mike",
"FaxNumber": "5205550199",
"EmailAddress": "Mike@OpenText.com",
... }
```

For most resource types, you can retrieve a collection of resources by not including a specific ID in the request. This request will retrieve a JSON array of all users:

GET http://*server*/*product*/API/users

For more information about unique IDs, see .

Chapter 4

Using the fax server emulator

You can test code against a simulated fax server by using the API Root URL: http://*server*/rightfaxsdk/api, where *server* is the computer where you installed the SDK. From this root, all JSON response URLs are links to sample data provided in the emulator.

You can use any of several existing sample accounts: admin, sharedcontactuser, user1, user2, user3, user4. The password for all accounts is **password** (case-sensitive).

Some things to expect when you use the emulator:

- Cover sheets and cover sheet templates are mocked up and do not display user data.

- All documents (PDF or TIF) use the same set of static images. Every third body page size is US legal; all other pages are US letter.

- SendJob attachments are not converted to a faxable format. Each attachment is counted as one page and sample images are used to represent those pages. The workflow is simulated: Send jobs are expanded into outbound documents and marked as successfully sent or failed.

- The emulator does not support drop folders or other features that are specific to OpenText Fax products.

To use the emulator with the provided test client, see "Using the test client" on page 12.

4.1 Testing successful and failed faxes

To test faxes:

- Send a fax to the number "1111" to cause an inbound document to be generated and received by the same user sending the job. The inbound document is similar to the outbound document. A successfully sent fax will appear in the Inbox.

- Send a fax to the number "2222" to cause the outbound document to fail.

4.2   Restoring the default state in the emulator

All user data in the emulator is stored in memory. You can remove your test data, restore the original sample data, and reset the emulator to the default state:

- Automatically, by allowing 6 hours of inactivity.
- By performing an IIS reset.
- By restarting the IIS web site where the test client is installed.

4.3   Using the test client

The emulator works with the test client to provide a convenient way to review your code against the API. The test client is similar to the OpenText Fax user client, but with limited functionality.

You can:

- Observe sent, received, routed, forwarded, retried, and canceled faxes in the inbox, outbox, and sent folders.
- Retrieve and view fax pages in PDF or TIFF formats.
- Manage contacts and contact groups.
- Manage users and user settings (preferences).

When you use the test client with the emulator, sample data is displayed and fax images, including cover sheets, are simulated.

To sign in to the test client:

1. On the SDK home page, click **Test Client**.

2. Sign in to the test client with one of the accounts included with the emulator.

3. Although you can select a language on the sign-in page, languages (other than English) are for demonstration purposes only and are not actual translations.

4. Click **Sign In**. The interface defaults to the contents of the Inbox.

Chapter 5

Authentication

All API operations require authentication. The OpenText Fax Web API uses standard HTTP Basic Authentication as defined by the Internet Engineering Task Force (IETF) in RFC 2617.

Basic Authentication, according to RFC 2617, requires the client to add an Authorization header to its request. The header's value will be of the form *Basic basic-credentials* where *basic-credentials* is a base64 encoding of *username:password*. For example, the authorization header for the user "administrator" with the password "password" would be:

Basic YWRtaW5pc3RyYXRvcjpwYXNzd29yZA==

If you sign in as an administrator, you will have permission to access almost all resources. If you sign in as a non-administrator, you will be limited to the resources owned by that user.

Chapter 6

Using ID properties

Many API objects have an ID property that uniquely identifies the object.

Always treat the ID as a string, even if it appears that all IDs are numbers or GUIDs, because different products use different types of IDs. Also, some reserved and built-in objects use special string-based IDs that are not numbers or GUIDs.

Rules for using ID properties in your client

- When creating a new object, set "Id" to null or empty (or do not include it at all in the JSON representation). The server assigns an ID to the object.

- When updating an object, include the ID.

- Clients must not modify the ID string in any way.

Chapter 7

Finding objects in the Web API

If you have been a user of the standard OpenText Fax API, use the following table to find corresponding OpenText Fax Web API objects. For detailed information about the Web API objects, see the API Reference. For information about the OpenText Fax API, see the *OpenText Fax API Reference Guide*.

OpenText Fax Standard API (rfwin32)	OpenText Fax Web API	Notes	
Method	**Object**	**Object**	
RFaxVerifyUser	N/A	GET Login? rememberMe={rememberMe}	
RFaxUnVerifyUser	N/A	GET Logout	
RFaxReadFile(LOGDIR_IMAGE)	disk file	GET DocumentImages/{id}	For a collection of document pages, see GET DocumentPages/{id}.
RFaxLoadFax	FAXINFO_##	GET Documents/{id}	
RFaxGetFaxList	FAXLISTELEMENT#	GET Documents	
RFaxLoadUser	USERINFO_##	GET Users/{id}	
RFaxGetUserList	USERLISTELEMENT#	GET Users	
RFaxLoadUser	USERINFO_##	GET Accounts/{id}	Includes user ID, user name, and other account related details.
RFaxLoadUser	USERINFO_##	GET Settings/{id}	Includes user preferences, such as automatic print settings.
N/A	N/A	GET Tags	Used to extend the data of the users, documents, and contacts resources.
RFaxLoadPrinter	PRINTERINFO_##	GET Printers/{id}	
RFaxGetPrinterList	PRINTERLISTELEMENT#	GET Printers	

OpenText Fax Standard API (rfwin32)		OpenText Fax Web API	Notes
Method	Object	Object	
RFaxReadFile(LOGDIR_OUTGOING)	disk file	GET Attachments/{id}	
RFaxGetFolderList	FOLDERLISTELEMENT#	GET DocumentFolders	
RFaxLoadLibDoc	LIBDOCLISTELEMENT#	GET LibraryDocuments/{id}	
RFaxGetLibDocList	LIBDOCLISTELEMENT#	GET LibraryDocuments	
RFaxGetHistoryList	HISTLISTELEMENT#	GET DocumentActivities	
RFaxLoadPhoneByHandle	PHONEITEM	GET Contacts/{id}	
RFaxLoadPhoneByName	N/A	N/A	
RFaxGetPhoneGroupList	char[18]	GET ContactGroupMemberships/{id}	
RFaxLoadCoversheet	COVERSHEETINFO_##	GET Templates/{id}	Templates are more general than coversheets (for example, notification templates).
RFaxReadFile(LOGDIR_FCS)	disk file	GET TemplateImages/{id}	
RFaxSendCVL	FAXINFO_##	POST SendJobs	
RFaxGetBillCodeList	BILLLISTELEMENT#	GET BillingCodes	

Chapter 8

Code samples

Code samples can be used in API development platforms such as Postman.

8.1 Log in

By default, the OpenText Fax Web API is configured to allow basic authentication for most requests. However, the preferred technique is to use basic authentication only for the API/Login endpoint and not use basic authentication for any other requests.

The server can be configured to restrict basic authentication to only a few API calls that require it.

The following request and response demonstrates using the API/Login endpoint using basic authentication. The server responds with a session cookie that should be included in all subsequent requests.

Request –

```
GET https://your-opentext-fax-server/rightfax/api/login
Authorization: Basic YWRtaW5pc3RyYXRvcjpwYXNzd29yZA==
```

The authorization header includes the base64 encoded username and password of the account that is logging in.

Response header –

```
HTTP/1.1 200 OK
Cache-Control: no-cache, no-store
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1 vSet-Cookie: rf-auth=RDLRNPOGNBAA47ZCJIK36YGRZLAWZJ6Z; path=/;
samesite=strict; secure; httponly
Date: Wed, 18 Nov 2020 17:32:52 GMT
Content-Length: 18642
```

Notice the cookies returned by the server in response to the successfull login. The client should include the rf-auth cookie returned from the server in subsequent calls.

Response body –

```
{
"Version": "1.0",
"Build": "20.0.225.0",
"Connector": "RightFax Connector 21.2.0.43",
"Server": "your-opentext-fax-server",
"ServerTime": "2020-11-18T16:32:04.4450318Z",
"ServerVersion": "21.2.0.43",
"Account": {
"Username": "ADMINISTRATOR",
"Provider": "Basic",
"ProviderAccount": "N/A",
```

```
"Roles": [ "Administrator" ],
"Permissions": [ "AdministrativeAccess", "CanManageSystem", "CanEditOrAddLibraryDocs",
"CanEditOrAddForms", "CanUseHighPriority", "CanChangeCoversheets", "CanOcrFaxes",
"CanRunReports", "CanManageReports", "AdministratorCanBypassPrivacy",
"CanManageDashboard", "CanManageDevices", "CanManageLogs", "CanManageSettings",
"CanManageTemplates", "CanManageUsers", "CanManageAlertsAndMonitors",
"CanManageChannelStatuses", "CanManageConnections", "CanManageFaxNumbers",
"CanManageForms", "CanManageGroups", "CanManageLibraryDocuments", "CanManagePrinters",
"CanManageServices", "CanManageSignatures", "CanManageSmsPagerServices",
"CanManageStatistics", "CanManageDestinationTables", "CanManageDialingPlan",
"CanManageDialingRules", "CanManageWorkRequests", "CanManageBillingCodes",
"CanManageLongRunningTasks", "CanManageStamps", "CanManageExternalConnections",
"CanLookupBillingCodes", "CanEditBillingCodes" ],
"UserId": "2",
"CanChangeUsername": true,
"CanChangeProvider": true,
"CanChangePassword": true,
"CanChangePermissions": true,
"IsLocked": false,
"LastSignInTime": "2020-11-18T08:55:20.81-08:00",
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/Accounts/ADMINISTRATOR"
},
{
"Rel": "User",
"Href": "https://your-opentext-fax-server/RightFax/API/Users/2"
}
]
},
"User": {
"Id": "2",
"DisplayName": "Administrator",
"FaxNumber": "0",
"EmailAddress": "",
"Group": {
"Description": "EVERYONE",
"Value": "1"
},
"FaxCount": 1,
"RouteCode": "0",
"DistinguishedName": "",
"VoiceMailSubscriberId": "0",
"SmsMobileAddress": "",
"AutomaticallyPrintOutboundFaxes": false,
"OutboundWhenToPrint": "success",
"OutboundPrintIncludeHistory": false,
"OutboundPrintIncludeThumbnail": false,
"OutboundPrintThumbnailSkipCover": false,
"OutboundPrintIncludeCoversheet": false,
"OutboundPrintIncludeBody": false,
"OutboundPrintPrinterId": "",
"AutomaticallyPrintInboundFaxes": false,
"InboundPrintSuccessfulReceivesOnly": false,
"InboundPrinterId": "",
"InboundPrinterSettings": {
"Priority": "normal",
"PageSize": "default",
"Quality": "high",
"Copies": 0,
"Staple": false,
"Collate": false,
"Duplexing": "default",
"OutputTray": "default",
"SourceTray": "default",
"DoNotAutoScale": false
},
"DefaultPrinterId": "",
"DefaultPrinterSettings": {
"Priority": "normal",
```

```
"PageSize": "default",
"Quality": "high",
"Copies": 0,
"Staple": false,
"Collate": false,
"Duplexing": "default",
"OutputTray": "default",
"SourceTray": "default",
"DoNotAutoScale": false
},
"EnableUpdateFaxList": true,
"FaxListUpdateInterval": 60,
"DefaultBillingCode1": "",
"DefaultBillingCode2": "",
"Description": "",
"IsNotificationMethodSms": false,
"NotificationMethod": "Use Group's Method",
"SmsService": "",
"NotificationAddress": "",
"NotificationSentAttachFax": false,
"NotificationReceivedAttachFax": false,
"NotificationSentAttachFaxFormatOption": "0",
"NotificationReceivedAttachFaxFormatOption": "0",
"NotificationSentAttachFaxPagesOption": "0",
"NotificationReceivedAttachFaxPagesOption": "0",
"SentNotificationSuccessfullySent": true,
"SentNotificationHeldForPreview": true,
"SentNotificationHeldForApproval": false,
"SentNotificationErrorWillRetry": true,
"SentNotificationErrorAbandoned": true,
"SentNotificationDuringTransmissionOption": "NEVER",
"SentNotificationIncompleteFaxesOption": "NEEDS_FCS2",
"ReceivedNotificationOption": "NEVER",
"NotificationNotifyAnAlternateUser": false,
"NotificationAlternateUserIncludeSentFaxNotifications": false,
"RefuseDistributions": true,
"InboundAutomaticForwarding": false,
"InboundAutomaticForwardingTypeOption": "FaxNumber",
"InboundAutomaticForwardingFaxNumber": "",
"InboundAutomaticOcr": false,
"InboundOcrSettings": {
"OutputType": "TXT",
"Layout": "LEFT",
"Format": "ASCII"
},
"OutboundFaxResolutionOption": "Normal",
"OutboundPriorityOption": "Normal",
"OutboundAutomaticDeleteOption": "Never",
"OutboundConversionBiasOption": "UseServerDefault",
"OutboundUseSmartResume": false,
"OutboundAutomaticOcr": false,
"OutboundHoldForPreview": false,
"OutboundPrepopulateDestinationInformationOnForward": true,
"OutboundCreatePdfImageForEmail": false,
"IncludeCoversheets": true,
"DefaultCoversheetOption": "0xCFCF",
"CoversheetResolutionOption": "Normal",
"CoversheetFromName": "Administrator",
"CoversheetFaxNumber": "",
"CoversheetCompanyFaxNumber": "",
"CoversheetVoiceNumber": "",
"CoversheetCompanyVoiceNumber": "",
"CoversheetCompany": "",
"CoversheetCityState": "",
"PagerNotificationSmsServiceOption": "",
"PagerNotificationFaxReceived": false,
"PagerNotificationFaxReceivedFromSpecificCsidOrAni": false,
"PagerNotificationOutboundFaxAbandoned": false,
"WorkflowReminderSmsServiceOption": "",
"WorkflowWarningSmsServiceOption": "",
"PagerAlertSmsServiceOption": "",
```

```
"PagerAlertLowDiskSpace": false,
"PagerAlertCriticallyLowDiskSpace": false,
"PagerAlertSendQueueTooDeep": false,
"PagerAlertSendQueueFaxesLimit": 1000,
"PagerAlertSendQueuePagesLimit": 10000,
"PagerAlertEventQueueFull": false,
"PagerAlertDocTransportServiceDown": false,
"PagerAlertAllDocTransportServicesDown": false,
"PagerAlertProbableLineFailure": false,
"PagerAlertProbableT1Failure": false,
"PagerAlertServerImproperlyShutDown": false,
"PagerAlertPeriodicServerHeartbeat": false,
"PagerAlertPeriodicServerHeartbeatInterval": 60,
"PagerAlertReceivedFaxFailures": false,
"PagerAlertReceivedWithTooFewDidDigits": false,
"PagerAlertExpectedNumberOfDidDigits": 0,
"RoutingTypeOption": "0",
"RoutingFileFormatOption": "2",
"RoutingInfo": "",
"RoutingFilenameFormat": "",
"RoutingReceivedFaxRoutingFormOption": "2",
"RoutingIncludeWebDeliveryUrl": false,
"RoutingDeleteAfterRouting": false,
"ApplicationOptionsSendDeletedItemsToTrashFolder": false,
"ApplicationOptionsEmptyTrashFolderOnExit": false,
"ApplicationOptionsUseRightFaxPhonebook": true,
"ApplicationOptionsAllowDelegateDuplicatesInUserList": true,
"ApplicationOptionsCheapTime": "2020-11-18T00:00:00-08:00",
"ApplicationOptionsViewerZoom": "FitPage",
"DefaultOcrSettings": {
"OutputType": "TXT",
"Layout": "LEFT",
"Format": "ASCII"
},
"IsDisabled": false,
"IsSynced": false,
"IsDefault": false,
"CanChangeDisplayName": true,
"CanChangeFaxNumber": true,
"CanChangeEmailAddress": true,
"CanDelete": false,
"CanLookUpDomainAccount": true,
"CanDisable": false,
"CanEnable": false,
"CanAccessAdministrativeMode": true,
"UseXmlGeneratorProcessor": false,
"XmlGenPath": "",
"XmlGenTemplate": "",
"XmlGenImageType": "",
"UseFileNetProcessor": false,
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/Users/2"
},
{
"Rel": "Documents",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents"
},
{
"Rel": "DocumentParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/documentParameters"
},
{
"Rel": "Inbox",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?filter=Inbox"
},
{
"Rel": "Outbox",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?filter=Outbox"
},
```

```json
{
"Rel": "Sent",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?filter=Sent"
},
{
"Rel": "Trash",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?filter=Trash"
},
{
"Rel": "DocumentsReceivedInTimeWindow",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?
minTransmitTime={MinTime}&maxTransmitTime={MaxTime}&filter=Received"
},
{
"Rel": "AllDocumentsReceivedInTimeWindow",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?
minTransmitTime={MinTime}&maxTransmitTime={MaxTime}&filter=Received"
},
{
"Rel": "DocumentCommands",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentCommands"
},
{
"Rel": "DocumentDownloadCommands",
"Href": "https://your-opentext-fax-server/RightFax/API/documents/commands/download"
},
{
"Rel": "Users",
"Href": "https://your-opentext-fax-server/RightFax/API/Users?excludeItemLinks=true"
},
{
"Rel": "Devices",
"Href": "https://your-opentext-fax-server/RightFax/API/Devices"
},
{
"Rel": "Contacts",
"Href": "https://your-opentext-fax-server/RightFax/API/Contacts"
},
{
"Rel": "Printers",
"Href": "https://your-opentext-fax-server/RightFax/API/Printers"
},
{
"Rel": "SendJobs",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs"
},
{
"Rel": "ImportDocuments",
"Href": "https://your-opentext-fax-server/RightFax/API/ImportDocuments"
},
{
"Rel": "Attachments",
"Href": "https://your-opentext-fax-server/RightFax/API/Attachments"
},
{
"Rel": "Preferences",
"Href": "https://your-opentext-fax-server/RightFax/API/Settings/preferences"
},
{
"Rel": "PreferencesDefaults",
"Href": "https://your-opentext-fax-server/RightFax/API/Settings/preferencesdefaults"
},
{
"Rel": "UserSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/Settings/user"
},
{
"Rel": "SendJobSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/Settings/send"
},
{
```

```
"Rel": "Features",
"Href": "https://your-opentext-fax-server/RightFax/API/Settings/features"
},
{
"Rel": "Locale",
"Href": "https://your-opentext-fax-server/RightFax/API/Settings/locale"
},
{
"Rel": "Templates",
"Href": "https://your-opentext-fax-server/RightFax/API/Templates"
},
{
"Rel": "Coversheets",
"Href": "https://your-opentext-fax-server/RightFax/API/Templates?usage=Coversheet"
},
{
"Rel": "Accounts",
"Href": "https://your-opentext-fax-server/RightFax/API/Accounts"
},
{
"Rel": "UserParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/userParameters"
},
{
"Rel": "AccountParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/accountParameters"
},
{
"Rel": "DeviceParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/deviceParameters"
},
{
"Rel": "AccountCommands",
"Href": "https://your-opentext-fax-server/RightFax/API/AccountCommands"
},
{
"Rel": "TagDefinitions",
"Href": "https://your-opentext-fax-server/RightFax/API/TagDefinitions"
},
{
"Rel": "SystemMenu",
"Href": "https://your-opentext-fax-server/RightFax/API/Settings/systemmenu"
},
{
"Rel": "DialingRulesSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/dialingrules"
},
{
"Rel": "InboundSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/inbound"
},
{
"Rel": "TransmissionAttemptsSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/transmissionattempts"
},
{
"Rel": "ConfigurationSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/configuration"
},
{
"Rel": "AuthenticationSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/authentication"
},
{
"Rel": "TransportSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/faxtransport"
},
{
"Rel": "NetworkIpv4Settings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/networkipv4"
},
```

```
{
"Rel": "DomainSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/domain"
},
{
"Rel": "SslSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/ssl"
},
{
"Rel": "ServerConnectSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/serverconnect"
},
{
"Rel": "FirewallSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/firewall"
},
{
"Rel": "DateAndTimeSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/time"
},
{
"Rel": "BackupSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/backup"
},
{
"Rel": "CoversheetOptionsSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/coversheetoptions"
},
{
"Rel": "SetSystemTime",
"Href": "https://your-opentext-fax-server/RightFax/API/system/time/commands"
},
{
"Rel": "DocumentFolders",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentFolders"
},
{
"Rel": "DocumentFilters",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentFilters"
},
{
"Rel": "DocumentSearches",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentSearches"
},
{
"Rel": "Files",
"Href": "https://your-opentext-fax-server/RightFax/API/Files"
},
{
"Rel": "BillingCodes",
"Href": "https://your-opentext-fax-server/RightFax/API/BillingCodes"
},
{
"Rel": "LibraryDocuments",
"Href": "https://your-opentext-fax-server/RightFax/API/LibraryDocuments"
},
{
"Rel": "ContactsExport",
"Href": "https://your-opentext-fax-server/RightFax/API/contacts/commands/exports"
},
{
"Rel": "ContactsImportScan",
"Href": "https://your-opentext-fax-server/RightFax/API/contacts/commands/importscans"
},
{
"Rel": "ContactsImport",
"Href": "https://your-opentext-fax-server/RightFax/API/contacts/commands/imports"
},
{
"Rel": "Logs",
"Href": "https://your-opentext-fax-server/RightFax/API/Logs"
```

```
    },
    {
    "Rel": "LogSettings",
    "Href": "https://your-opentext-fax-server/RightFax/API/system/logging"
    },
    {
    "Rel": "LogDelete",
    "Href": "https://your-opentext-fax-server/RightFax/API/logs/commands/delete"
    },
    {
    "Rel": "LogDownload",
    "Href": "https://your-opentext-fax-server/RightFax/API/logs/commands/download"
    },
    {
    "Rel": "LogConfig",
    "Href": "https://your-opentext-fax-server/RightFax/API/logs/commands/config"
    },
    {
    "Rel": "System",
    "Href": "https://your-opentext-fax-server/RightFax/API/system"
    },
    {
    "Rel": "ImportUsers",
    "Href": "https://your-opentext-fax-server/RightFax/API/users/commands/import"
    },
    {
    "Rel": "LegacyReports",
    "Href": "https://your-opentext-fax-server/RightFax/API/LegacyReports"
    },
    {
    "Rel": "LegacyReportParameters",
    "Href": "https://your-opentext-fax-server/RightFax/API/system/reportParameters"
    },
    {
    "Rel": "LegacyReportsCommands",
    "Href": "https://your-opentext-fax-server/RightFax/API/LegacyReportsCommands"
    },
    {
    "Rel": "Credentials",
    "Href": "https://your-opentext-fax-server/RightFax/API/Credentials"
    },
    {
    "Rel": "DiagnosticSettings",
    "Href": "https://your-opentext-fax-server/RightFax/API/Diagnostics"
    },
    {
    "Rel": "Certificates",
    "Href": "https://your-opentext-fax-server/RightFax/API/Certificates"
    },
    {
    "Rel": "ConversionTest",
    "Href": "https://your-opentext-fax-server/RightFax/API/system/diagnostics/conversion/
    tests"
    },
    {
    "Rel": "TransportTest",
    "Href": "https://your-opentext-fax-server/RightFax/API/system/diagnostics/transport/
    tests"
    },
    {
    "Rel": "Workflows",
    "Href": "https://your-opentext-fax-server/RightFax/API/Workflows"
    },
    {
    "Rel": "PerformanceCounterSets",
    "Href": "https://your-opentext-fax-server/RightFax/API/PerformanceCounterSets"
    },
    {
    "Rel": "Groups",
    "Href": "https://your-opentext-fax-server/RightFax/API/Groups"
    },
```

```
{
"Rel": "Services",
"Href": "https://your-opentext-fax-server/RightFax/API/Services"
},
{
"Rel": "Forms",
"Href": "https://your-opentext-fax-server/RightFax/API/Forms"
},
{
"Rel": "SmsPagerServices",
"Href": "https://your-opentext-fax-server/RightFax/API/SmsPagerServices"
},
{
"Rel": "FaxNumbers",
"Href": "https://your-opentext-fax-server/RightFax/API/FaxNumbers"
},
{
"Rel": "Connections",
"Href": "https://your-opentext-fax-server/RightFax/API/Connections"
},
{
"Rel": "ConnectionsCommands",
"Href": "https://your-opentext-fax-server/RightFax/API/ConnectionsCommands"
},
{
"Rel": "ChannelStatuses",
"Href": "https://your-opentext-fax-server/RightFax/API/ChannelStatuses"
},
{
"Rel": "Signatures",
"Href": "https://your-opentext-fax-server/RightFax/API/Signatures"
},
{
"Rel": "AlertsAndMonitors",
"Href": "https://your-opentext-fax-server/RightFax/API/AlertsAndMonitors"
},
{
"Rel": "AlertAndMonitorParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/alertAndMonitorParameters"
},
{
"Rel": "AlertsAndMonitorsActions",
"Href": "https://your-opentext-fax-server/RightFax/API/AlertsAndMonitorsActions"
},
{
"Rel": "AlertAndMonitorActionParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/
alertAndMonitorActionParameters"
},
{
"Rel": "PrinterParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/printerParameters"
},
{
"Rel": "ServicesCommands",
"Href": "https://your-opentext-fax-server/RightFax/API/services/commands"
},
{
"Rel": "SignatureParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/signatureParameters"
},
{
"Rel": "FormParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/formParameters"
},
{
"Rel": "FaxNumbersCommands",
"Href": "https://your-opentext-fax-server/RightFax/API/FaxNumbersCommands"
},
{
"Rel": "GroupParameters",
```

```
"Href": "https://your-opentext-fax-server/RightFax/API/system/groupParameters"
},
{
"Rel": "DomainAccounts",
"Href": "https://your-opentext-fax-server/RightFax/API/DomainAccounts"
},
{
"Rel": "Systems",
"Href": "https://your-opentext-fax-server/RightFax/API/Systems"
},
{
"Rel": "FaxNumbersImport",
"Href": "https://your-opentext-fax-server/RightFax/API/faxnumbers/commands/import"
},
{
"Rel": "DomainPrinters",
"Href": "https://your-opentext-fax-server/RightFax/API/DomainPrinters"
},
{
"Rel": "DialingRules",
"Href": "https://your-opentext-fax-server/RightFax/API/DialingRules"
},
{
"Rel": "DestinationTables",
"Href": "https://your-opentext-fax-server/RightFax/API/DestinationTables"
},
{
"Rel": "WorkRequests",
"Href": "https://your-opentext-fax-server/RightFax/API/WorkRequests"
},
{
"Rel": "DialingRulesParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/dialingRulesParameters"
},
{
"Rel": "DialingRulesCommands",
"Href": "https://your-opentext-fax-server/RightFax/API/DialingRulesCommands"
},
{
"Rel": "GlobalMfpSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/GlobalMfpSettings"
},
{
"Rel": "MfpEmporium",
"Href": "https://your-opentext-fax-server/RightFax/API/system/MfpEmporium"
},
{
"Rel": "MfpManager",
"Href": "https://your-opentext-fax-server/RightFax/API/system/MfpManager"
},
{
"Rel": "AnalyticsDataSets",
"Href": "https://your-opentext-fax-server/RightFax/API/AnalyticsDataSets"
},
{
"Rel": "AnalyticsData",
"Href": "https://your-opentext-fax-server/RightFax/API/AnalyticsData"
},
{
"Rel": "AnalyticsDataTransmissions",
"Href": "https://your-opentext-fax-server/RightFax/API/AnalyticsDataTransmissions"
},
{
"Rel": "AnalyticsConfiguration",
"Href": "https://your-opentext-fax-server/RightFax/API/system/analyticsconfiguration"
},
{
"Rel": "AnalyticsDownload",
"Href": "https://your-opentext-fax-server/RightFax/API/analytics/commands/download"
},
{
```

```
"Rel": "MfpLicenses",
"Href": "https://your-opentext-fax-server/RightFax/API/MfpLicenses"
},
{
"Rel": "Work",
"Href": "https://your-opentext-fax-server/RightFax/API/Work"
},
{
"Rel": "DelegateRoles",
"Href": "https://your-opentext-fax-server/RightFax/API/DelegateRoles"
},
{
"Rel": "DelegateRolesParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/delegateRolesParameters"
},
{
"Rel": "Delegates",
"Href": "https://your-opentext-fax-server/RightFax/API/Delegates"
},
{
"Rel": "UserProfiles",
"Href": "https://your-opentext-fax-server/RightFax/API/UserProfiles/2"
},
{
"Rel": "Dashboards",
"Href": "https://your-opentext-fax-server/RightFax/API/Dashboards"
},
{
"Rel": "DocumentMetadata",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentMetadata"
},
{
"Rel": "Stamps",
"Href": "https://your-opentext-fax-server/RightFax/API/Stamps"
},
{
"Rel": "MfpSessions",
"Href": "https://your-opentext-fax-server/RightFax/API/MfpSessions"
},
{
"Rel": "MfpCommands",
"Href": "https://your-opentext-fax-server/RightFax/API/MfpCommands"
},
{
"Rel": "UserPicture",
"Href": "https://your-opentext-fax-server/RightFax/API/UserPictures/2"
},
{
"Rel": "UserPictureImage",
"Href": "https://your-opentext-fax-server/RightFax/API/UserPictureImages/2?
nocache=637413175727207637"
},
{
"Rel": "ExternalConnections",
"Href": "https://your-opentext-fax-server/RightFax/API/ExternalConnections"
},
{
"Rel": "ExternalConnectionsParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/
externalConnectionsParameters"
},
{
"Rel": "CustomWorkflows",
"Href": "https://your-opentext-fax-server/RightFax/API/CustomWorkflows"
},
{
"Rel": "CustomWorkflowUsers",
"Href": "https://your-opentext-fax-server/RightFax/API/CustomWorkflowUsers"
},
{
"Rel": "ExternalProcessing",
```

```
"Href": "https://your-opentext-fax-server/RightFax/API/system/externalprocessing"
},
{
"Rel": "EpicSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/epicSettings"
},
{
"Rel": "SmsPagerServicesParameters",
"Href": "https://your-opentext-fax-server/RightFax/API/system/smsPagerServicesParameters"
},
{
"Rel": "OneWayConnector",
"Href": "https://your-opentext-fax-server/RightFax/API/system/oneWayConnector"
},
{
"Rel": "PostFaxProcessingOptions",
"Href": "https://your-opentext-fax-server/RightFax/API/system/postFaxProcessingOptions"
},
{
"Rel": "PostFaxProcessingSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/postFaxProcessingSettings"
},
{
"Rel": "WebClientLogs",
"Href": "https://your-opentext-fax-server/RightFax/API/Logs?
source=webadmin,faxutilweb,webanalytics,webservers,websignin,weblanding"
},
{
"Rel": "EmailTransport",
"Href": "https://your-opentext-fax-server/RightFax/API/system/emailTransport"
},
{
"Rel": "CustomizableServerMessages",
"Href": "https://your-opentext-fax-server/RightFax/API/system/customizableServerMessages"
},
{
"Rel": "AlertingSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/alertingSettings"
},
{
"Rel": "ServiceAccountSettings",
"Href": "https://your-opentext-fax-server/RightFax/API/system/serviceAccountSettings"
}
]
},
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/"
}
]
}
```

Notice that the "User" data returned by the API/Login request contains an array of "Links". These links should be used by clients of the API to further interact with the OpenText Fax server. For example, to find information about SendJobs for this user, search the array of Links for the relationship, "SendJob". This reveals the following link:

```
    {
"Rel": "SendJobs",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs"
},
```

Calling "GET" on the associated "Href", will return the SendJobs for the logged in user.

Calling "POST" for this link will create a fax send job.

8.2   Request system features

Requesting system features does not require authentication and provides an overview of how the OpenText Fax server is configured for use with the Web API.

Request –

```
GET https://your-opentext-fax-server/RightFax/API/Settings/features
```

Response –

```
HTTP/1.1 200 OK
Cache-Control: no-cache, no-store
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Date: Wed, 18 Nov 2020 16:36:04 GMT
Content-Length: 1957
{
    "CanUserResetPassword":false,
    "CanUserCreateAccount":false,
    "CanUseSharedContacts":false,
    "CanUseWindowsAuthentication":true,
    "CanSignIn":true,"CanUseAdminClient":true,
    "Macros":{
        "ProductNameShort":"RightFax",
        "ProductName":"RightFax",
        "ProductVersion":"21.2.0.0",
        "ServerBuildVersionNumber":"21.2.0.43"
    },
    "BillingCode1Label":"Account",
    "BillingCode2Label":"Matter",
    "CanUseBillingCodesLookup":true,
    "CanUseLibraryDocuments":true,
    "CanManageHost":false,
    "IsEmulator":false,
    "IsWindowsAuthenticationEnabled":false,
    "IsOAuthEnabled":false,
    "RequireStrongPasswords":false,
    "StrongPasswordInstructions":"",
    "CanSetServerConnect":false,
    "UseEnterpriseClient":true,
    "CanSendAsEmailAttachment":false,
    "RequireAcknowledgmentScreen":false,
    "AcknowledgmentText":"",
    "CanConfigureXmlGenerator":true,
    "CanConfigureConnectorForIbmFilenet":true,
    "CanConfigureEpic":true,
    "UserClient":{"AllowAccessToUserClient":true},
    "WebAdminClient":{
        "AllowAccessToAdminClient":true,
        "DefaultToMultipleServers":true,
        "HelpUrl":".\\help",
        "ShowDashboard":true,
        "ShowUsers":true,
        "ShowDevices":true,
        ShowReports":true,
        "ShowCoversheets":true,
        "ShowStatistics":true,
        "ShowGroups":true,
        "ShowChannelStatuses":true,
        "ShowServices":true,
        "ShowSignatures":true,
        "ShowForms":true,
        "ShowPrinters":true,
```

```
            "ShowBillingCodes":true,
            "ShowSmsPagerServices":true,
            "ShowFaxNumbers":true,
            "ShowAlertsAndMonitors":true,
            "ShowConnections":true,
            "ShowLibraryDocuments":true,
            "ShowLogs":true,
            "ShowDialingRules":true,
            "ShowDestinationTables":true,
            "ShowCustomWorkflows":true,
            "ShowLongRunningTasks":true,
            "ShowAnalytics":true,
            "ShowStamps":true,
            "ShowAnalyticsChannelUsage":true,
            "ShowExternalConnections":true
        },
        "ServersClient":{
            "AllowAccessToServersClient":true
        },
        "AnalyticsClient"{
            "AllowAccessToAnalyticsClient":true,
            "SendChannelCapability":0,
            "ReceiveChannelCapability":0,
            "BothChannelCapability":0,
            "GreenToYellowLevel":0,
            "YellowToRedLevel":0
        },
        "Links":[
            {"Rel":"Self","Href":"https://your-opentext-fax-server/RightFax/API/Settings/
features"}
        ]
}
```

8.3   Send a fax

To send a fax, first you must log in. See .

POST one or more image files to the API/Attachments endpoint to include when creating the SendJob. Use the "Attachments" link returned in the User.Links after login to upload one or more files that will be included in the send job.

The request to create a multipart/form-data is beyond the scope of this tutorial. Many tools such as Postman simplify this task by providing a GUI process for selecting files to include in the body of the POST.

Header example –

Requesting system features does not require authentication and provides an overview of how the OpenText Fax server is configured for use with the Web API.

Request –

```
      POST https://your-opentext-fax-server/RightFax/API/Attachments
   Accept: application/json
   Content-Type: multipart/form-data; boundary="1c7cb898-efdc-4d96-bc62-6d09c3ec0f07"
   Host: your-opentext-fax-server
   Cookie: rf-auth=H735NHJHIZA7SG7ILD6DUUZM4WH2CQBS
   Content-Length: 65091
   Expect: 100-continue
```

Content example –

```
    --1c7cb898-efdc-4d96-bc62-6d09c3ec0f07
    Content-Type: application/binary
    Content-Disposition: form-data; name="2020 holiday dates.docx"; filename="2020
holiday dates.docx"; filename*=utf-    8''2020%20holiday%20dates.docx
    PK    !   e  R   [Content_Types].xml  (
```

(This example is truncated. Additional binary data follows.)

Response –

The response to posting the attachment will return status code 201 if successful and will look something like the following example:

```
        HTTP/1.1 201 Created
    Cache-Control: no-cache
    Pragma: no-cache
    Content-Length: 77
    Content-Type: text/plain; charset=utf-8
    Expires: -1
    Location: https://your-opentext-fax-server/RightFax/API/Attachments/
b9b544dcf1b04a32a21d060143b789a3
    Date: Wed, 18 Nov 2020 18:50:53 GMT
    https://your-opentext-fax-server/RightFax/API/Attachments/
b9b544dcf1b04a32a21d060143b789a3
```

Note the value of the "Location" header in the response (also included in the body of the response). This URL (and any other files uploaded for the send job) should be included in the array of attachments when the send job data is posted. Files uploaded via the Web API will only be available temporarily, so the work to send the fax should proceed immediately after uploading required attachments.

Create a SendJob by posting to the API/SendJobs endpoint.

When posting a send fax request, the body of the post should include an array of recipients with name and destination data and the URLs of any attachments that were previously uploaded. All of this data should be formatted as JSON.

SendJob includes many other options which are beyond the scope of this tutorial.

Request –

```
        POST https://your-opentext-fax-server/RightFax/API/SendJobs
    Accept: application/json
    Content-Type: application/json; charset=utf-8
    Host: your-opentext-fax-server
    Cookie: rf-auth=H735NHJHIZA7SG7ILD6DUUZM4WH2CQBS
    Content-Length: 321
    Expect: 100-continue
    {
        "Recipients":[{"Name":"test", "Destination":"333-3333"}],
        "AttachmentUrls":["https://your-opentext-fax-server/RightFax/API/Attachments/
b9b544dcf1b04a32a21d060143b789a3"],
    }
```

Response –

```
        HTTP/1.1 201 Created
    Cache-Control: no-cache, no-store
    Pragma: no-cache
    Content-Type: application/json; charset=utf-8
    Expires: -1
```

```
        Location: https://your-opentext-fax-server/RightFax/API/SendJobs/3
        Date: Wed, 18 Nov 2020 18:50:53 GMT
        Content-Length: 744
        {
            "Id": "3",
            "UserId": "2",
            "Recipients": [],
            "Attachments": [],
            "IncludedDocumentIds": [],
            "AttachmentUrls": [],
            "LibraryDocumentIds": [],
            "Priority": "Normal",
            "Tags": {},
            "Condition": "None",
            "Status": "None",
            "DocumentCount": 0,
            "CreateTime": "2020-11-18T18:50:54.2000388Z",
            "Links": [
                {"Rel": "Self","Href": "https://your-opentext-fax-server/RightFax/API/
SendJobs/3"},
                {"Rel": "Documents","Href": "https://your-opentext-fax-server/RightFax/API/
Documents?filter=job&jobid=3"},
                {"Rel": "ProcessingDocuments","Href": "https://your-opentext-fax-server/
RightFax/API/Documents?filter=jobprocessing&jobid=3"},
                {"Rel": "DeliveredDocuments","Href": "https://your-opentext-fax-server/
RightFax/API/Documents?filter=jobsucceeded&jobid=3"},
                {"Rel": "FailedDocuments","Href": "https://your-opentext-fax-server/RightFax/
API/Documents?filter=jobfailed&jobid=3"}
            ]
        }
```

As before, the "Location" header provides the URL to the newly created Web API resource. The body of the response is the SendJob that was created and includes data about the job, as well as an array of links that can be used to determine additional details about the SendJob.

The SendJob location URL can be queried multiple times to observe the progress of the SendJob.

Request –

```
    GET https://your-opentext-fax-server/RightFax/API/SendJobs/3
    Accept: application/json
    Host: your-opentext-fax-server
    Cookie: rf-auth=H735NHJHIZA7SG7ILD6DUUZM4WH2CQBS
```

Response –

```
    HTTP/1.1 200 OK
    Cache-Control: no-cache, no-store
    Pragma: no-cache
    Content-Type: application/json; charset=utf-8
    Expires: -1
    Date: Wed, 18 Nov 2020 18:50:55 GMT
    Content-Length: 835
{
"Id": "3",
"UserId": "2",
"Recipients": [],
"Attachments": [],
"IncludedDocumentIds": [],
"AttachmentUrls": [],
"LibraryDocumentIds": [],
"HoldForPreview": false,
"Priority": "Normal",
"CoversheetTemplateId": "",
"CoversheetResolution": "Fine",
```

```
"Tags": {},
"Condition": "Processing",
"Status": "SendJobConversion",
"DocumentCount": 1,
"CreateTime": "2020-11-18T18:50:54.2",
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs/3"
},
{
"Rel": "Documents",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?filter=job&jobid=3"
},
{
"Rel": "ProcessingDocuments",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?
filter=jobprocessing&jobid=3"
},
{
"Rel": "DeliveredDocuments",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?
filter=jobsucceeded&jobid=3"
},
{
"Rel": "FailedDocuments",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?
filter=jobfailed&jobid=3"
}
]
}
```

Note that the "Condition" and "Status" of the SendJob have been updated from "None" to "Processing" and "SendJobConversion" respectively. When the SendJob "Condition" has changed to "Succeeded," "Canceled," or "Failed," the SendJob has finished processing.

Assuming the fax was sent successfully, the "Documents" link from the SendJob can be used to obtain additional details about each fax that was sent to each recipient included in the SendJob.

Request –

```
    GET https://your-opentext-fax-server/RightFax/API/Documents?filter=job&jobid=3
Accept: application/json
Host: your-opentext-fax-server
Cookie: rf-auth=H735NHJHIZA7SG7ILD6DUUZM4WH2CQBS
```

Response –

```
    HTTP/1.1 200 OK
Cache-Control: no-cache, no-store
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Date: Wed, 18 Nov 2020 18:51:59 GMT
Content-Length: 2867
{
"TotalCount": 1,
"Skipped": 0,
"Top": 50,
"Items": [
{
"Id": "2",
"RootId": "2",
"SendJobId": "!2",
```

```
"UserId": "2",
"UserName": "ADMINISTRATOR",
"Box": "O",
"FolderName": "Main",
"FolderId": "O",
"Direction": "Outbound",
"PageCount": 2,
"Condition": "Processing",
"Status": "SendJobConversion",
"StatusText": "In Cover Conversion",
"From": "Administrator",
"To": "test",
"Destination": "333-3333",
"Company": "",
"VoiceNumber": "",
"CreateTime": "2020-11-18T10:50:54-08:00",
"IsContentDeleted": false,
"HasCoversheet": true,
"IsArchived": false,
"IsDeleted": false,
"IsPrinted": false,
"HasOcr": false,
"OcrData": "",
"HasPdf": false,
"Delivery": "Fax",
"StatusBall": "Inprogress",
"IsSendJob": false,
"CanDelete": true,
"CanRetry": true,
"CanRetryToAltDestination": true,
"CanSendNow": false,
"CanCancelSend": false,
"CanPrint": true,
"CanSave": true,
"CanUndelete": false,
"CanView": false,
"CanViewProperties": true,
"CanRoute": true,
"CanResend": true,
"CanForwardInternally": true,
"CanForwardExternally": true,
"CanViewConfirmation": false,
"CanApprove": false,
"Viewed": false,
"UnViewed": false,
"HoldReleased": false,
"IsForwarded": false,
"IsAnnotated": false,
"Priority": "Normal",
"DiagnosticMode": "",
"Tags": [],
"BillingCode1": "",
"BillingCode2": "",
"ForwardedList": [],
"Comments": "",
"NumberTxRxRecords": 0,
"BinaryFileAttachmentsBytes": 0,
"LastHistoryChange": "2020-11-18T10:51:56-08:00",
"FineCover": true,
"GatewayFax": false,
"HasTxRxNotes": false,
"RequestingAPdf": false,
"DataForNewerVersions": "",
"MessageFromTransport": "",
"DidDnis": "",
"ExternalJobId": "3",
"Ani": "",
"CompletionEvent": false,
"UniqueId": "ADM5FB4FCCD44DF",
"Links": [
{
```

```
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents/2"
},
{
"Rel": "User",
"Href": "https://your-opentext-fax-server/RightFax/API/Users/2"
},
{
"Rel": "Users",
"Href": "https://your-opentext-fax-server/RightFax/API/Users"
},
{
"Rel": "DocumentPages",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentPages/2"
},
{
"Rel": "DocumentImages",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentImages/2"
},
{
"Rel": "DocumentAnnotations",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentAnnotations/2"
},
{
"Rel": "DocumentFile",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentFiles/2"
},
{
"Rel": "DocumentActivities",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentActivities?documentId=2"
},
{
"Rel": "Tags",
"Href": "https://your-opentext-fax-server/RightFax/API/Tags?
relatedType=Document&relatedId=2"
},
{
"Rel": "DocumentMetadata",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentMetadata?documentId=2"
},
{
"Rel": "DocumentConfirmationReceipts",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentConfirmationReceipt/2"
},
{
"Rel": "ForwardSendJob",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs/!2?
usage=Forward&documentId=2"
},
{
"Rel": "SendJobs",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs/!2"
},
{
"Rel": "IncompleteSendJob",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs/!2?
usage=Incomplete&documentId=2"
}
]
}
],
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?
filter=job&jobid=3&skip=0&top=50"
}
]
}
```

Most requests to the Web API that can potentially return a very long list of items (such as documents) return a "paged" result set which includes the following properties.

Total Count	The number of items that match the query
Skip	The page number of current list of results (0 index so 0=1st page)
Top	The number of items in a single page
Items	An array of data objects
Links	An array of helpful links such as "Self," "Next," and "Previous" that can be used to get the same page, the next page, or the previous page of results. As seen above, "Next" and "Previous" are omitted if there are no next or previous pages.

In this example, there is one document included in the "Items" array. As shown above, a document will include data about number of pages, as well as helpful links that can be used to obtain additional information about the document such as it's "DocumentActivities" (the fax history) and "DocumentImages," which can be used to obtain an image of each page of the document. As with the SendJob URL, a given document has not completed processing until it's "Condition" property is "Succeeded," "Canceled," or "Failed."

Request –

```
     GET https://your-opentext-fax-server/RightFax/API/DocumentActivities?documentId=2
Accept: application/json
Host: your-opentext-fax-server
Cookie: rf-auth=H735NHJHIZA7SG7ILD6DUUZM4WH2CQBS
```

Response –

```
     HTTP/1.1 200 OK
Cache-Control: no-cache, no-store
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Date: Wed, 18 Nov 2020 18:52:12 GMT
Content-Length: 3327
{
"TotalCount": 4,
"Skipped": 0,
"Top": 100,
"Items": [
{
"Id": "7",
"DocumentId": "2",
"Message": "Origin Record\r\n Created by ADMINISTRATOR\r\n",
"Timestamp": "2020-11-18T18:50:57Z",
"UserId": "2",
"UserDisplayName": "ADMINISTRATOR",
"Condition": "Succeeded",
"Status": "None",
"IsDiagnostic": true,
"IsOrigin": true,
"IsChangeOfOwnership": false,
"Links": [
```

```
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentActivities/7"
},
{
"Rel": "Document",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents/2"
},
{
"Rel": "User",
"Href": "https://your-opentext-fax-server/RightFax/API/Users/2"
},
{
"Rel": "UserPictureImage",
"Href": "https://your-opentext-fax-server/RightFax/API/UserPictureImages/2"
}
]
},
{
"Id": "8",
"DocumentId": "2",
"Message": "Conversion Record\r\n[00000005]\r\nType: application/vnd.openxmlformats-
officedocument.wordprocessingml.document\r\nG3 to TIFF #1: Success [image/g3] (424ms)\r
\nAspose #1: Success [image/tiff] (17245ms)\r\nField Replacement #1: Success
[application/vnd.openxmlformats-officedocument.wordprocessingml.document] (726ms)\r
\nWord Automation #1: Microsoft Word is not installed on this server. (146ms)\r\n(your-
opentext-fax-server:WORKSRV3)\r\n",
"Timestamp": "2020-11-18T18:51:56Z",
"UserId": "0",
"UserDisplayName": "",
"Condition": "Succeeded",
"Status": "None",
"IsDiagnostic": true,
"IsOrigin": false,
"IsChangeOfOwnership": false,
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentActivities/8"
},
{
"Rel": "Document",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents/2"
},
{
"Rel": "User",
"Href": "https://your-opentext-fax-server/RightFax/API/Users/0"
},
{
"Rel": "UserPictureImage",
"Href": "https://your-opentext-fax-server/RightFax/API/UserPictureImages/0"
}
]
},
{
"Id": "9",
"DocumentId": "2",
"Message": "Conversion Record\r\nSuccessfully created cover sheet.\r\nType: application/
postscript\r\nG3 to TIFF #1: Success [image/g3] (242ms)\r\nGhostScript TIFF #1: Success
[image/tiff] (729ms)\r\n(your-opentext-fax-server:WORKSRV2)\r\n",
"Timestamp": "2020-11-18T18:52:05Z",
"UserId": "0",
"UserDisplayName": "",
"Condition": "Succeeded",
"Status": "None",
"IsDiagnostic": true,
"IsOrigin": false,
"IsChangeOfOwnership": false,
"Links": [
{
"Rel": "Self",
```

```
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentActivities/9"
},
{
"Rel": "Document",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents/2"
},
{
"Rel": "User",
"Href": "https://your-opentext-fax-server/RightFax/API/Users/0"
},
{
"Rel": "UserPictureImage",
"Href": "https://your-opentext-fax-server/RightFax/API/UserPictureImages/0"
}
]
},
{
"Id": "10",
"DocumentId": "2",
"Message": "Transmission Record\r\nSent to: test\r\nPhone: 3333333\r\nBilling
information: '', ''\r\nRemote ID: \r\nUnique ID: \"ADM5FB4FCCD44DF\"\r\nElapsed time: 0
minutes, 0 seconds.\r\nUsed channel 2 on server \"your-opentext-fax-server\".\r\nNo ANI
data.\r\nNo AOC data.\r\nNo ECM.\r\nResulting status code (0): Success\r\nPages sent: 1
- 2\r\nDelegate ID: \"\"\r\n",
"Timestamp": "2020-11-18T18:52:08Z",
"UserId": "0",
"UserDisplayName": "",
"Condition": "Succeeded",
"Status": "None",
"IsDiagnostic": true,
"IsOrigin": false,
"IsChangeOfOwnership": false,
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentActivities/10"
},
{
"Rel": "Document",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents/2"
},
{
"Rel": "User",
"Href": "https://your-opentext-fax-server/RightFax/API/Users/0"
},
{
"Rel": "UserPictureImage",
"Href": "https://your-opentext-fax-server/RightFax/API/UserPictureImages/0"
}
]
}
],
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentActivities?
documentId=2&skip=0&top=100"
}
]
}
```

8.4 Receive a fax

To receive a fax, first you must log in. See "Log in" on page 19.

In many cases, a check for received faxes will include a window of time. For example, an automated system using the Web API might periodically check to see if any new faxes have been received since the last check for received faxes.

The User.Links array returned during authentication includes a helpful link for this situation named "DocumentsReceivedInTimeWindow":

```
    {
    "Rel": "DocumentsReceivedInTimeWindow",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?
minTransmitTime={MinTime}&maxTransmitTime={MaxTime}&filter=Received"
    }
```

The values {MinTime} and {MaxTime} should be replaced with values that represent UTC values formatted as MM/DD/YYY HH:MM:SS. Those values should then be URI encoded to escape characters that should not be included in query parameters.

Request –

```
    GET https://your-opentext-fax-server/RightFax/API/Documents?
minTransmitTime=11%2F11%2F2020%2020%3A18%3A39&maxTransmitTime=11%2F12%2F2020%2020%3A18%3A
39&filter=Received
    Accept: application/json
    Host: your-opentext-fax-server
    Cookie: rf-auth=KSZ42Y3WTYKVKMOY2RN7YKUORVPJHGT6
```

Response –

```
    HTTP/1.1 200 OK
    Cache-Control: no-cache, no-store
    Pragma: no-cache
    Content-Type: application/json; charset=utf-8
    Expires: -1
    Date: Wed, 18 Nov 2020 20:18:38 GMT
    Content-Length: 243
    {
        "TotalCount":0,
        "Skipped":0,
        "Top":50,
        "Items":[],
        "Links":[
            {"Rel":"Self","Href":"https://your-opentext-fax-server/RightFax/API/
Documents?
minTransmitTime=11%2f11%2f2020+20%3a18%3a39&maxTransmitTime=11%2f12%2f2020+20%3a18%3a39&f
ilter=Received&skip=0&top=50"}
        ]
    }
```

Because the "Items" array is empty, there were no received documents for the requested period of time.

Request –

```
    GET https://your-opentext-fax-server/RightFax/API/Documents?
minTransmitTime=11%2F17%2F2020%2020%3A18%3A39&maxTransmitTime=11%2F18%2F2020%2020%3A18%3A
39&filter=Received
    Accept: application/json
```

```
      Host: your-opentext-fax-server
      Cookie: rf-auth=KSZ42Y3WTYKVKMOY2RN7YKUORVPJHGT6
```

Response –

```
      HTTP/1.1 200 OK
      Cache-Control: no-cache, no-store
      Pragma: no-cache
      Content-Type: application/json; charset=utf-8
      Expires: -1
      Date: Wed, 18 Nov 2020 20:18:40 GMT
      Content-Length: 2960
{
"TotalCount": 1,
"Skipped": 0,
"Top": 50,
"Items": [
{
"Id": "3",
"RootId": "3",
"SendJobId": "!3",
"UserId": "2",
"UserName": "ADMINISTRATOR",
"Box": "0",
"FolderName": "Main",
"FolderId": "0",
"Direction": "Inbound",
"PageCount": 2,
"Condition": "Succeeded",
"Status": "InboundCompletion",
"StatusText": "OK",
"From": "",
"To": "",
"Destination": "",
"Company": "",
"VoiceNumber": "",
"CreateTime": "2020-11-18T10:52:08-08:00",
"TransmitCompleteTime": "2020-11-18T10:52:08-08:00",
"IsContentDeleted": false,
"HasCoversheet": false,
"IsArchived": false,
"IsDeleted": false,
"IsPrinted": false,
"HasOcr": false,
"OcrData": "",
"HasPdf": false,
"Delivery": "Fax",
"StatusBall": "Ok",
"IsSendJob": false,
"CanDelete": true,
"CanRetry": false,
"CanRetryToAltDestination": true,
"CanSendNow": false,
"CanCancelSend": false,
"CanPrint": true,
"CanSave": true,
"CanUndelete": false,
"CanView": true,
"CanViewProperties": true,
"CanRoute": true,
"CanResend": false,
"CanForwardInternally": true,
"CanForwardExternally": true,
"CanViewConfirmation": true,
"CanApprove": false,
"Viewed": false,
"UnViewed": false,
"HoldReleased": false,
"IsForwarded": false,
"IsAnnotated": false,
```

```
"Priority": "Normal",
"DiagnosticMode": "",
"Tags": [],
"BillingCode1": "",
"BillingCode2": "",
"ForwardedList": [],
"Comments": "",
"NumberTxRxRecords": 1,
"BinaryFileAttachmentsBytes": O,
"LastHistoryChange": "2020-11-18T10:52:08-08:00",
"FineCover": false,
"GatewayFax": false,
"HasTxRxNotes": false,
"RequestingAPdf": false,
"DataForNewerVersions": "",
"MessageFromTransport": "",
"DidDnis": "3333333",
"ExternalJobId": "O",
"Ani": "",
"CompletionEvent": false,
"UniqueId": "ADM5FB4FCDC44EO",
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents/3"
},
{
"Rel": "User",
"Href": "https://your-opentext-fax-server/RightFax/API/Users/2"
},
{
"Rel": "Users",
"Href": "https://your-opentext-fax-server/RightFax/API/Users"
},
{
"Rel": "DocumentPages",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentPages/3"
},
{
"Rel": "DocumentImages",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentImages/3"
},
{
"Rel": "DocumentAnnotations",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentAnnotations/3"
},
{
"Rel": "DocumentFile",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentFiles/3"
},
{
"Rel": "DocumentActivities",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentActivities?documentId=3"
},
{
"Rel": "Tags",
"Href": "https://your-opentext-fax-server/RightFax/API/Tags?
relatedType=Document&relatedId=3"
},
{
"Rel": "DocumentMetadata",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentMetadata?documentId=3"
},
{
"Rel": "DocumentConfirmationReceipts",
"Href": "https://your-opentext-fax-server/RightFax/API/DocumentConfirmationReceipt/3"
},
{
"Rel": "ForwardSendJob",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs/!3?
usage=Forward&documentId=3"
```

```
},
{
"Rel": "SendJobs",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs/!3"
},
{
"Rel": "IncompleteSendJob",
"Href": "https://your-opentext-fax-server/RightFax/API/SendJobs/!3?
usage=Incomplete&documentId=3"
}
]
}
],
"Links": [
{
"Rel": "Self",
"Href": "https://your-opentext-fax-server/RightFax/API/Documents?
minTransmitTime=11%2f17%2f2020+20%3a18%3a39&maxTransmitTime=11%2f18%2f2020+20%3a18%3a39&f
ilter=Received&skip=0&top=50"
}
]
}
```

In this case, the "Items" array includes a document that was received during the requested time.

The received document can also be downloaded to the client using the "DocumentFile" link provided in the document object. The default file type is PDF but other image formats can be specified.

Request –

```
GET https://dalevm-rfax/RightFax/API/DocumentFiles/3
Accept: application/json
Host: your-opentext-fax-server
Cookie: rf-auth=KSZ42Y3WTYKVKMOY2RN7YKUORVPJHGT6
```

Response header –

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Length: 24116
Content-Type: application/pdf
Expires: -1
Content-Disposition: inline; filename=FaxDocument_6.pdf
Date: Wed, 18 Nov 2020 20:20:22 GMT
```

The response header indicates the type of file and a suggested file name. The body of the response is not shown and contains the encoded file.